



Acomon S.r.l.

Impianto di produzione di carbonati organici e intermedi

Via Baiona 107 – Comune di Ravenna (RA)

**PROCEDURA DI VERIFICA DI ASSOGGETTABILITÀ A VIA PER IL PROGETTO
DI REALIZZAZIONE DI UNA NUOVA LINEA DI FORMULAZIONE PRESSO
L'IMPIANTO SITO NEL COMUNE DI RAVENNA**

STUDIO PRELIMINARE AMBIENTALE

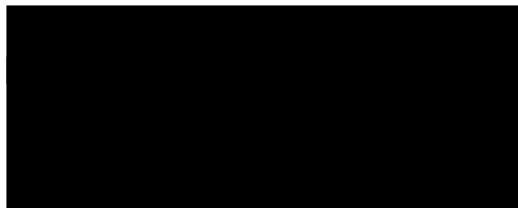
art. 19 D.Lgs. 152/2006 e s.m.i., art. 10 L.R. Emilia-Romagna n. 4/2018 e s.m.i.

SPA 01.01

SCHEDE DI SICUREZZA

Safety Data Sheet

Product Name	
SDS Group	
Grade	HC – 1 0 0 HC – 1 5 0 HC – 6 0 0 HC – 1 1 0 0 HC – 2 0 0 0 HC – 3 0 0 0 X



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Mitsui Chemicals, Inc.



SDS Number: 46003EU

Version: 3.0

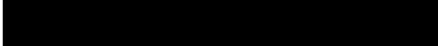
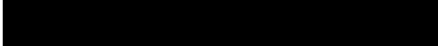
Date of first issue: 18.12.2018

Revision Date: 27.03.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : 

Substance name : 
REACH Registration Number : 
CAS-No. : 
SDS Number : 

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Polymer
Substance/Mixture

Recommended restrictions : For industrial use only.
on use

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company : Mitsui Chemicals, Inc.

Street address : 2-2-1 Yaesu, Chuo-ku, Tokyo 104-0028, Japan

Responsible Department : Elastomers Division

Telephone : +81-3-6880-7307

Telefax : +81-3-6880-7565

1.4 Emergency telephone number

+44(0)1235 239 670 NCEC

This telephone number is available 24 hours per day, 7 days per week.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Although none of the hazard statements are applicable, this product should be handled with following precautions.

Precautionary statements : **Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Wash hands and face thoroughly after handling.
Avoid release to the environment.
Response:
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.
Disposal:
Dispose of contents/ container to an approved waste disposal

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plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	CAS-No. EC-No.	Concentration	M-Factor, SCL, ATE
		>= 99%	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	: Wear suitable protective equipment.
If inhaled	: IF exposed or if you feel unwell: Remove to fresh air. Get medical attention immediately if symptoms occur.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
In case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing. Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Keep patient warm and at rest. Get immediate medical advice/ attention.

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4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water mist
Foam
Dry chemical
Carbon dioxide
Dry sand

Unsuitable extinguishing media : Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon monoxide
Carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters : Respiratory and eye protection required for fire-fighting personnel.
Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

Further information : Keep unnecessary and unprotected personnel away.
Remove undamaged containers from fire area if it is safe to do so.
Fight fire from an upwind position.
Keep containers and surroundings cool with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.
Wear suitable protective equipment.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Keep people away from and upwind of spill/leak.
Immediately evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers.
Large spills: Dike far ahead of liquid spill for later disposal.
Stop leak if safe to do so.
If a non-aqueous product is leaked into the water, use appropriate absorbent material to collect the product.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").
Take precautionary measures against static discharge.
Use only in well-ventilated areas.
Keep away from heat (above flash point), sparks and flame.

Advice on safe handling : Do not handle until all safety precautions have been read and understood.
Prevent leak and spill. Avoid vapour formation.
Do not fall, drop, shock or drag the container.
Avoid inhalation, ingestion and contact with skin and eyes.
Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in accordance with the particular national regulations.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from heat (above flash point), sparks and flame.

Advice on common storage : Keep away from incompatible materials (see section 10).

Packaging material : Sealable, unbreakable containers.

7.3 Specific end use(s)

Specific use(s) : See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

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Provide general or local exhaust ventilation as necessary.

Personal protective equipment

- | | |
|--------------------------|---|
| Eye protection | : Safety goggles
Safety glasses
Face shield |
| Hand protection | : Protective gloves |
| Skin and body protection | : Protective suit
Safety helmet
Safety boots
Apron |
| Respiratory protection | : Use suitable protective equipment as necessary. |

Environmental exposure controls

- | | |
|----------------|---|
| General advice | : Do not flush into surface water or sanitary sewer system. |
|----------------|---|

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|--|---|
| Physical state | : liquid |
| Form | : liquid |
| Colour | : colourless |
| Odour | : odorless |
| Melting point/range | : -50 - 30 °C (pour point) |
| Boiling point/boiling range | : no data available |
| Flammability | : no data available |
| Upper explosion limit / upper flammability limit | : no data available |
| Lower explosion limit / Lower flammability limit | : no data available |
| Flash point | : ≥ 250 °C |
| Auto-ignition temperature | : no data available |
| Decomposition temperature | : no data available |
| Decomposition temperature | : no data available |
| Self-Accelerating decomposition temperature (SADT) | : no data available |
| pH | : no data available |
| Viscosity | : no data available |
| Viscosity, kinematic | : 20 - 3500 mm ² /s (100 °C) |
| Solubility(ies) | : no data available |
| Water solubility | : insoluble |
| Partition coefficient: n-octanol/water | : no data available |

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Vapour pressure	:	no data available
Relative density	:	0.82 - 0.87 (15 °C)
Density	:	no data available
Relative vapour density	:	no data available
Particle characteristics		
Particle size	:	Not applicable

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Conditions to avoid : Avoid heating above flash point.

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

Carbon monoxide

Carbon dioxide

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

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Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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12.7 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : In accordance with local and national regulations.
Dispose of wastes in an approved waste disposal facility.
When outsourcing waste treatment, be sure to notify the treatment company regarding the hazards before outsourcing.
- Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

- Remarks : Check the container for breakage, corrosion or leak.
Do not fall, drop, or shock the container. Prevent collapse of the stack.
Observe regulatory requirements of packaging, labeling and transportation.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

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REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable
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15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Full text of other abbreviations

PBT - Persistent, Bioaccumulative and Toxic;
vPvB - very Persistent and very Bioaccumulative

Further information

Training advice	:	Provide adequate information, instruction and training for operators.
Sources of key data used to compile the Safety Data Sheet	:	In-house data Information acquired by literature documentation
Revision Note	:	This data sheet contains changes from the previous version in section(s): 1

According to Article 31 of Regulation (EC) No. 1907/2006 (REACH), a Safety Data Sheet does not have to be provided for this product. This document is a SAFETY INFORMATION SHEET according to Article 32 of Regulation (EC) No. 1907/2006 REACH.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.14

Revision Date 26.06.2025

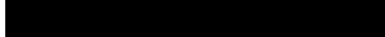
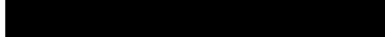
Print Date 12.09.2025

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**Product name : 

Product Number : 227048

Brand : Sigma-Aldrich

Index-No. : REACH No. : CAS-No. : **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheetCompany : Merck Life Science S.r.l.
Via Monte Rosa 93
I-20149 MILANO

Telephone : +39 02 3341 7340

Fax : +39 02 3801 0737

E-mail address : serviziotecnico@merckgroup.com

1.4 Emergency telephone numberEmergency Phone # : 800-789-767 (CHEMTREC Italia)
+39-02-4555-7031 (CHEMTREC chiamate internazionali)
+39 02-6610-1029 (Centro Antiveleni Niguarda Ca' Granda - Milano)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Flammable liquids, (Category 2) H225: Highly flammable liquid and vapour.

Skin irritation, (Category 2) H315: Causes skin irritation.

Specific target organ toxicity - H336: May cause drowsiness or dizziness.
single exposure, (Category 3),
Central nervous system

Aspiration hazard, (Category 1) H304: May be fatal if swallowed and enters



airways.

Short-term (acute) aquatic hazard, (Category 1)

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, (Category 1)

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word

Danger

Hazard Statements

H225

Highly flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H315

Causes skin irritation.

H336

May cause drowsiness or dizziness.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

P273

Avoid release to the environment.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P331

Do NOT induce vomiting.

Supplemental Hazard Statements

none

Reduced Labelling (<= 125 ml)

Pictogram



Signal Word

Danger

Hazard Statements

H304

May be fatal if swallowed and enters airways.

Precautionary Statements

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331

Do NOT induce vomiting.

Supplemental Hazard Statements

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:



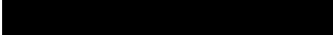
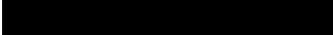
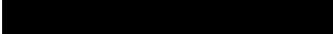
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : 
Molecular weight : 
CAS-No. : 
EC-No. : 
Index-No. : 

Component	Classification	Concentration
		
	Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H225, H315, H336, H304, H400, H410 Concentration limits: 20 %: STOT SE 3, H336; M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11



4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Pay attention to flashback.

Vapours are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.



Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Store under inert gas.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Predicted No Effect Concentration (PNEC)

Compartment	Value
Fresh water	0,207 mg/l
Fresh water sediment	3,627 mg/kg
Marine water	0,207 mg/l
Aquatic intermittent release	0,207 mg/l
Sewage treatment plant	3,24 mg/l
Soil	2,99 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 480 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other



substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 30 min

Material tested: KCL 741 Dermatril® L

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|---|--|
| a) Physical state | liquid |
| b) Color | colourless |
| c) Odor | sweet |
| d) Melting point/freezing point | Melting point/ range: 4 - 7 °C - lit. |
| e) Initial boiling point and boiling range | 80,7 °C - lit. |
| f) Flammability (solid, gas) | No data available |
| g) Upper/lower flammability or explosive limits | Upper explosion limit: 8,3 %(V)
Lower explosion limit: 1,2 %(V) |
| h) Flash point | -20 °C - closed cup |
| i) Autoignition temperature | 260,0 °C |
| j) Decomposition temperature | No data available |
| k) pH | No data available |
| l) Viscosity | Viscosity, kinematic: No data available
Viscosity, dynamic: 0,89 mPa.s at 25 °C |
| m) Water solubility | 52 g/l at 23,5 °C - partly soluble |
| n) Partition coefficient: n-octanol/water | log Pow: 3,44 at 25 °C - Bioaccumulation is not expected. |



- | | |
|-----------------------------|---|
| o) Vapor pressure | 124 hPa at 24 °C |
| p) Density | 0,779 g/cm ³ at 25 °C - lit. |
| Relative density | No data available |
| q) Relative vapour density | No data available |
| r) Particle characteristics | No data available |
| | |
| s) Explosive properties | Not classified as explosive. |
| t) Oxidizing properties | none |

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapours may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of explosion with:

nitrogen dioxide

Risk of ignition or formation of inflammable gases or vapours with:

Strong oxidizing agents

10.4 Conditions to avoid

Warming.

10.5 Incompatible materials

rubber, various plastics

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 5.000 mg/kg

(OECD Test Guideline 401)

Symptoms: gastric pain, Stomach/intestinal disorders

LC50 Inhalation - Rat - male and female - 4 h - > 32.800 mg/l - vapour

(OECD Test Guideline 403)

Symptoms: Possible damages:, Irritation symptoms in the respiratory tract., Inhalation may lead to the formation of oedemas in the respiratory tract.



LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg
(OECD Test Guideline 402)

Skin corrosion/irritation

Remarks: Causes skin irritation.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Serious eye damage/eye irritation

Remarks: No data available

Respiratory or skin sensitization

Buehler Test - Guinea pig

Result: negative

(Regulation (EC) No. 440/2008, Annex, B.6)

Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test

Species: Rat

Cell type: Bone marrow

Application Route: inhalation (vapour)

Method: OECD Test Guideline 475

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

May be fatal if swallowed and enters airways.

Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



Repeated dose toxicity - Rat - male and female - Inhalation - 90 d
Remarks: Subchronic toxicity

RTECS: GU6300000

Central nervous system depression, Drowsiness, Irritability, Dizziness, Gastrointestinal disturbance, Lung irritation, chest pain, pulmonary edema

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After uptake of large quantities:

Unconsciousness

Damage to:

Lungs

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 4,53 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0,9 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	ErC50 - Pseudokirchneriella subcapitata (green algae) - > 4,425 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	IC50 - Bacteria - 29 mg/l - 15 h Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d
Result: 77 % - Readily biodegradable.
(OECD Test Guideline 301F)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Biological effects:

Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities.

Change in the flavour characteristics of fish protein.

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

14.1 UN number

[REDACTED]

14.2 UN proper shipping name

ADR/RID: [REDACTED]

IMDG: [REDACTED]

IATA: [REDACTED]

14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

14.6 Special precautions for user

Tunnel restriction code : (D/E)

Further information : No data available

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

:



National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1

ENVIRONMENTAL HAZARDS

P5c

FLAMMABLE LIQUIDS

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.



Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

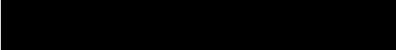
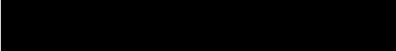
Version 8.8

Revision Date 01.03.2024

Print Date 12.09.2025

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**Product name : 

Product Number : 
Brand : 
Index-No. : 
REACH No. : 
CAS-No. : 

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Merck Life Science S.r.l.
Via Monte Rosa 93
I-20149 MILANO

Telephone : +39 02 3341 7340
Fax : +39 02 3801 0737
E-mail address : serviziotecnico@merckgroup.com

1.4 Emergency telephone

Emergency Phone # : 800-789-767 (CHEMTREC Italia)
+39-02-4555-7031 (CHEMTREC chiamate internazionali)
+39 02-6610-1029 (Centro Antiveleni Niguarda Ca' Granda - Milano)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Flammable liquids, (Category 2) H225: Highly flammable liquid and vapor.

Eye irritation, (Category 2) H319: Causes serious eye irritation.

Specific target organ toxicity - H336: May cause drowsiness or dizziness.



single exposure, (Category 3),
Central nervous system

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word

Danger

Hazard Statements

H225

Highly flammable liquid and vapor.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

Precautionary Statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242

Use non-sparking tools.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard information (EU)

EUH066

Repeated exposure may cause skin dryness or cracking.

Reduced Labeling (<= 125 ml)

Pictogram



Signal Word

Danger

Hazard Statements

none

Precautionary Statements

none

Supplemental Hazard information (EU)

EUH066

Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

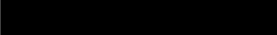
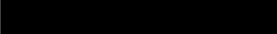
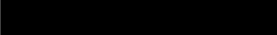
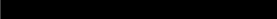
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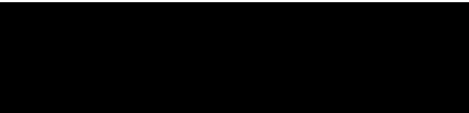


The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : 
Molecular weight : 
CAS-No. : 
EC-No. : 
Index-No. : 

Component	Classification	Concentration
		
	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 Concentration limits: 20 %: STOT SE 3, H336;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available



SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Foam Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemisorb®).

Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.



Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities**Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Ingredients with workplace control parameters****Derived No Effect Level (DNEL)**

Application Area	Routes of exposure	Health effect	Value
Workers	Inhalation	Acute systemic effects	1468 mg/m ³
Workers	Inhalation	Acute local effects	1468 mg/m ³
Workers	Skin contact	Long-term systemic effects	63mg/kg BW/d
Workers	Inhalation	Long-term systemic effects	734 mg/m ³
Workers	Inhalation	Long-term local effects	734 mg/m ³
Consumers	Inhalation	Acute local effects, Acute systemic effects	734 mg/m ³
Consumers	Skin contact	Long-term systemic effects	37mg/kg BW/d
Consumers	Inhalation	Long-term systemic effects	367 mg/m ³
Consumers	Ingestion	Long-term systemic effects	4,5mg/kg BW/d
Consumers	Inhalation	Long-term local effects	367 mg/m ³

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	0,24 mg/kg
Sea water	0,026 mg/l
Fresh water	0,26 mg/l
Sea sediment	0,125 mg/kg
Fresh water sediment	1,25 mg/kg



8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0,7 mm

Break through time: 120 min

Material tested: Butoject® (KCL 898)

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|---|---|
| a) Physical state | clear, liquid |
| b) Color | colorless |
| c) Odor | fruity |
| d) Melting point/freezing point | Melting point/range: -84 °C |
| e) Initial boiling point and boiling range | 76,5 - 77,5 °C |
| f) Flammability (solid, gas) | No data available |
| g) Upper/lower flammability or explosive limits | Upper explosion limit: 11,5 %(V)
Lower explosion limit: 2,1 %(V) |



h) Flash point	-4 °C - closed cup
i) Autoignition temperature	No data available
j) Decomposition temperature	Distillable in an undecomposed state at normal pressure.
k) pH	No data available
l) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m) Water solubility	No data available
n) Partition coefficient: n-octanol/water	log Pow: 0,73 - Bioaccumulation is not expected., (Lit.)
o) Vapor pressure	No data available
p) Density	0,90 g/cm ³ at 20 °C
Relative density	No data available
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	No data available
t) Oxidizing properties	none

9.2 Other safety information

Relative vapor density	3,04
------------------------	------

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:

Exothermic reaction with:

Fluorine

chlorosulfonic acid

Strong oxidizing agents

fuming sulfuric acid

Risk of explosion with:

lithium aluminium hydride

Alkali metals

hydrides

Alkaline earth metals

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Violent reactions possible with:
Strong acids and strong bases

10.4 Conditions to avoid

Warming.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 5.620 mg/kg

Remarks: (RTECS)

Inhalation: No data available

LD50 Dermal - Rabbit - male - > 20.000 mg/kg

Remarks: (ECHA)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Remarks: (IUCLID)

Serious eye damage/eye irritation

Remarks: Causes serious eye irritation.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: UDS (Unscheduled DNA synthesis assay)

Test system: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: US-EPA

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative



Test Type: Micronucleus test
Species: Chinese hamster
Cell type: Red blood cells (erythrocytes)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness. - Central nervous system

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - male and female - Oral - 92 Days - NOAEL (No observed adverse effect level) - 900 mg/kg - LOAEL (Lowest observed adverse effect level) - 3.600 mg/kg

RTECS: AH5425000

Inhalation of high concentrations may cause:, Headache, Drowsiness, Dizziness, Vomiting, narcosis, anemia, Central nervous system depression

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 230 mg/l - 96 h (US-EPA)
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Toxicity to algae	static test NOEC - <i>Desmodesmus subspicatus</i> (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Remarks: (IUCLID) (ethyl acetate)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - <i>Daphnia magna</i> (Water flea) - 2,4 mg/l - 21 d (OECD Test Guideline 211)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 20 d Result: ca.69 % - Readily biodegradable. Remarks: (ECHA)
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Theoretical oxygen demand	1.820 mg/g Remarks: (Lit.)
---------------------------	-------------------------------

12.3 Bioaccumulative potential

Bioaccumulation	<i>Leuciscus idus melanotus</i> - 3 Days at 22,5 °C(ethyl acetate)
-----------------	---

Bioconcentration factor (BCF): 30

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
------------	---

12.7 Other adverse effects

No data available



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

14.1 UN number

[REDACTED]

14.2 UN proper shipping name

[REDACTED]

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code : (D/E)

Further information : No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

National legislation

Seveso III: Directive 2012/18/EU of the P5c FLAMMABLE LIQUIDS
European Parliament and of the Council
on the control of major-accident hazards
involving dangerous substances.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.



SECTION 16: Other information

Full text of H-Statements

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

Mitsui Chemicals, Inc.



SDS Number: P190393EU

Version: 1.0

Date of first issue: 12.05.2025

Revision Date: 12.05.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name :

Substance name :

REACH Registration Number : -

SDS Number :

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Raw material for industry

Recommended restrictions on use : For industrial use only.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company : Mitsui Chemicals, Inc.

Street address : 2-2-1 Yaesu, Chuo-ku, Tokyo 104-0028, Japan

Responsible Department : Coatings & Engineering Materials Div.

Telephone : +81-3-6880-7468

Telefax : +81-3-6880-7573

1.4 Emergency telephone number

+44(0)1235 239 670 NCEC

This telephone number is available 24 hours per day, 7 days per week.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

Although none of the hazard statements are applicable, this product should be handled with following precautions.

Precautionary statements : **Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Wash hands and face thoroughly after handling.
Avoid release to the environment.
Response:
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	CAS-No. EC-No.	Concentration	M-Factor, SCL, ATE
	-	>= 99%	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	: Wear suitable protective equipment.
If inhaled	: IF exposed or if you feel unwell: Remove to fresh air. Get medical attention immediately if symptoms occur. If inhalation of melt processing fumes occurs, remove to fresh air.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur. Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Get medical attention immediately.
In case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing. Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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Rinse mouth with water.
Keep patient warm and at rest.
Get immediate medical advice/ attention.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water jet
Water mist
Foam
Dry chemical
Carbon dioxide

Unsuitable extinguishing media : none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon monoxide
Carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters : Respiratory and eye protection required for fire-fighting personnel.
Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

Further information : Keep unnecessary and unprotected personnel away.
Remove undamaged containers from fire area if it is safe to do so.
Fight fire from an upwind position.
Keep containers and surroundings cool with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.
Wear suitable protective equipment.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Keep people away from and upwind of spill/leak.
Immediately evacuate personnel to safe areas.

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6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use only non-sparking tools.
Sweep up and shovel into suitable containers for disposal.
If in molten state, allow it to cool and solidify before proceeding with disposal methods.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").
Take precautionary measures against static discharge.
Use only in well-ventilated areas.
Keep away from heat, sparks and flame.
Avoid dust formation.

Advice on safe handling : Do not handle until all safety precautions have been read and understood.
Avoid dust formation.
Do not breathe dust.

Hygiene measures : Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in accordance with the particular national regulations.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from heat, sparks and flame.
Store indoors.
Ground/bond container and receiving equipment.

Advice on common storage : Keep away from incompatible materials (see section 10).

Packaging material : Polyolefin-lined paper bag

7.3 Specific end use(s)

Specific use(s) : See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

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Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment

Eye/face protection	: Safety goggles Safety glasses Face shield
Hand protection	: Protective gloves
Skin and body protection	: Protective suit Safety helmet Safety shoes Apron
Respiratory protection	: Use suitable protective equipment as necessary.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: solid
Form	: pellets
Colour	: light yellow
Odour	: odorless
Melting point/ range	: 75 °C
Boiling point/boiling range	: no data available
Flammability	: May form explosive dust-air mixture during processing, handling or other means.
Upper explosion limit / upper flammability limit	: no data available
Lower explosion limit / Lower flammability limit	: no data available
Flash point	: > 200 °C (estimated)
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
pH	: no data available
Viscosity	
Viscosity, kinematic	: no data available
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: no data available

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Vapour pressure : no data available

Relative density : no data available

Density : no data available

Relative vapour density : no data available

Particle characteristics

Particle size : no data available

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidizers, strong bases.
Dust may form explosive mixture in air.
Vapours may ignite or explode by static electricity or other ignition sources.

10.4 Conditions to avoid

Conditions to avoid : Overheat

10.5 Incompatible materials

Materials to avoid : Strong oxidizers
Strong bases

10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

no data available

Skin corrosion/irritation

Product:

Remarks : Contact with dust can cause mechanical irritation or drying of the skin.

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Serious eye damage/eye irritation

Product:

Remarks : Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

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0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.
Dispose of wastes in an approved waste disposal facility.
When outsourcing waste treatment, be sure to notify the treatment company regarding the hazards before outsourcing.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Remarks : Check the container for breakage, corrosion or leak.
Do not fall, drop, or shock the container. Prevent collapse of the stack.
Observe regulatory requirements of packaging, labeling and transportation.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable
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15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Full text of other abbreviations

PBT - Persistent, Bioaccumulative and Toxic;
vPvB - very Persistent and very Bioaccumulative

Further information

Training advice	: Provide adequate information, instruction and training for operators.
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Sources of key data used to compile the Safety Data Sheet	: In-house data Information acquired by literature documentation
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According to Article 31 of Regulation (EC) No. 1907/2006 (REACH), a Safety Data Sheet does not have to be provided for this product. This document is a SAFETY INFORMATION SHEET according to Article 32 of Regulation (EC) No. 1907/2006 REACH.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

1. Identification

Product identifier	
Other means of identification	
SDS number	
Product Code	
Recommended use	Formulation [mixing] of preparations and/or re-packaging (excluding alloys). Industrial uses: Uses of substances as such or in preparations at industrial sites.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Company	Kraton Chemical, LLC
Address	P.O. Box 550850 Jacksonville, FL
Zip	32255-0850
Country	USA
Phone Number	904-928-8700
Alternate Phone Number	800-526-5294
Fax Number	904-928-8780
Emergency-US	CHEMTREC 800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2B
	Sensitization, skin	Category 1B
OSHA defined hazards	Combustible dust	

Label elements



Signal word	Warning
Hazard statement	May cause an allergic skin reaction. Causes eye irritation. May form combustible dust concentrations in air.
Precautionary statement	
Prevention	Avoid breathing dust/fume. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Wash thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard. Observe good industrial hygiene practices.
Response	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
			99-100

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). Apply extinguishing media carefully to avoid creating airborne dust.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	High concentration of airborne dust may form explosive mixture with air. Static charges generated by emptying package in or near flammable vapor may cause flash fire. During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Wear suitable protective equipment. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	May form combustible dust concentrations in air.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Prevent product from entering drains. Stop the flow of material, if this is without risk. Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep containers tightly closed in a dry, cool and well-ventilated place. Store at ambient temperature and atmospheric pressure.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

Additional components	Type	Value	Form
Dust	TWA	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Wear suitable gloves tested to EN374. Recommended gloves include rubber, neoprene, nitrile or viton. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness should be typically greater than 0.35 mm. This recommendation is advisory only. It may not be appropriate for all workplaces. It should not be construed as offering an approval for any specific use scenario. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. Eye wash fountain and emergency showers are recommended.

9. Physical and chemical properties

Appearance

Solid.

Physical state

Solid.

Form

Pastilles or Pellets. or Flakes.

Color

Light yellow.

Odor

Mild.

Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	>480.2 °F (>249.0 °C) Setaflash Closed Cup
Evaporation rate	0 (n-BuAc=1) estimated
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)	Not available.
Explosive limit - lower (%) temperature	Not available.
Explosive limit - upper (%)	Not available.
Explosive limit - upper (%) temperature	Not available.

Vapor pressure	<0.001 mm Hg at 20°C
Vapor density	Not available.
Relative density	1.07 at 25°C/25°C; (water=1)
Solubility(ies)	
Solubility (water)	<0.1 % at 25°C
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	>392 °F (>200 °C)
Decomposition temperature	Not available.
Viscosity	31250 cP Brookfield at 125°C

Other information

Chemical family	Modified Rosin Ester
Density	1070.00 kg/m3 at 20°C
Explosive limit	Not available.
Percent volatile	<2 % EPA Method 24
Pounds per gallon	9 at 25°C
Softening point	221 °F (105 °C) Ring & Ball
Weighted solids	100 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Strong oxidizing agents. Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimize dust generation and accumulation.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes eye irritation.

Eye contact

Rosin, polymer with isophthalic acid and pentaerythritol

Irritation Corrosion - Eye, Data is for similar product.

Result: Positive

Species: New Zealand white rabbit

Organ: Eye

Test Duration: 4 hr

Observation Period: 72 hr

Notes: OECD 405

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects**Acute toxicity**

May cause an allergic skin reaction.

Components**Species****Test Results****Acute****Oral**

LD50

Rat

> 5000 mg/kg Data is for similar product.

> 2000 mg/kg At this dose no death occurred.; Data is for similar product.

NOAEL

Wistar rat

300 mg/kg/day, 8 weeks Developmental; Data is for similar product.

NOEL

Wistar rat

1000 mg/kg/day, 8 weeks Reproductive; Data is for similar product.

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Corrosivity

Irritation Corrosion - Skin, No skin irritation.; Data is for similar product.

Result: Negative

Species: New Zealand white rabbit

Organ: Skin

Test Duration: 4 hr

Observation Period: 72 hr

Notes: OECD 404

Serious eye damage/eye irritation

Causes eye irritation.

Eye Contact

Irritation Corrosion - Eye, Data is for similar product.

Result: Positive

Species: New Zealand white rabbit

Organ: Eye

Test Duration: 4 hr

Observation Period: 72 hr

Notes: OECD 405

Respiratory or skin sensitization**Respiratory sensitization**

Not a respiratory sensitizer.

Skin sensitization

May cause an allergic skin reaction.

Skin sensitization

50 % w/w Local Lymph Node Assay - Lowest Concentration Producing Reaction, SI=5; May cause sensitization by skin contact.

Result: Positive

Species: Mouse

Notes: OECD 429

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Mutagenicity

Germ Cell Mutagenicity: Ames, Data is for similar product.

Result: Negative

Species: Salmonella typhimurium

Notes: OECD 471

Germ Cell Mutagenicity: Chromosome Abberation, Data is for similar product.

Result: Negative

Species: Human

Notes: OECD 473

In Vitro Mammalian Cell Gene Mutation Test, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.; Data is for similar product.

Result: Negative

Species: Mouse

Notes: OECD 476

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

12. Ecological information

Ecotoxicity

May cause long lasting harmful effects to aquatic life.

Components

Species

Test Results

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

> 100 mg/l, 48 hr Data is for similar product.

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

The product is not readily biodegradable.

Biodegradability

Percent degradation (Aerobic biodegradation)

46 % CO2 Evolution Test, Data is for similar product.

Result: Not readily biodegradable

Species: Activated sewage sludge

Bioaccumulative potential

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
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14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)	All components are either listed on the US EPA TSCA Inventory list and designated as "active" or are exempt from listing.
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes
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Classified hazard categories	Combustible dust Serious eye damage or eye irritation Respiratory or skin sensitization
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SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.
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16. Other information, including date of preparation or last revision

Issue date	02-05-2015
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Revision date	05-03-2024
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Version #	7.0
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Further information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
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NFPA ratings	Health: 2 Flammability: 1 Instability: 0
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Revision information

Product and Company Identification: Product and Company Identification

Regulatory information: Australia

Regulatory information: Japan Fire Prevention Ordinance

Other information, including date of preparation or last revision: Disclaimer

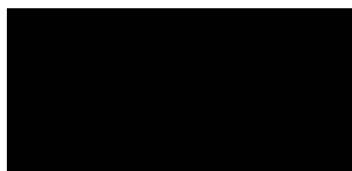
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Data di revisione: 18.02.2022

SEZIONE 1: identificazione della sostanza/miscela e della società/impresa

1.1 Identificatore del prodotto

Nome commerciale :
Identificatore unico di formula (UFI) :
Numero SDS :



1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati

Utilizzazione della sostanza/della miscela :



Restrizioni d'uso raccomandate : Ad uso esclusivamente industriale.

1.3 Informazioni sul fornitore della scheda di dati di sicurezza

Fornitore/importatore

Società : Mitsui Chemicals Europe GmbH
Indirizzo : Oststrasse 34, 40211 Düsseldorf, Germania
Telefono : +49(0)211-17 33 20
Telefax : +49(0)211-17 33 27 01
Indirizzo email della persona responsabile del SDS : regulatory@mcie.de

Fabbricante

Società : Mitsui Chemicals, Inc.
Indirizzo : Shiodome City Center, 1-5-2, Higashi-Shimbashi, Minato-ku, Tokyo, 105-7122, Giappone
Dipartimento responsabile : Coatings & Engineering Materials Div.
Telefono : +81-3-6253-3542
Telefax : +81-3-6253-4223

1.4 Numero telefonico di emergenza

+44(0)1235 239 670 NCEC
Questo numero di telefono è disponibile 24 ore al giorno, 7 giorni la settimana.

SEZIONE 2: identificazione dei pericoli

2.1 Classificazione della sostanza o della miscela

Classificazione (REGOLAMENTO (CE) N. 1272/2008)

Liquidi infiammabili, Categoria 2	H225: Liquido e vapori facilmente infiammabili.
Irritazione cutanea, Categoria 2	H315: Provoca irritazione cutanea.
Irritazione oculare, Categoria 2	H319: Provoca grave irritazione oculare.
Sensibilizzazione cutanea, Categoria 1	H317: Può provocare una reazione allergica cutanea.

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Tossicità specifica per organi bersaglio -
esposizione singola, Categoria 3, Effetti
narcotici

H336: Può provocare sonnolenza o vertigini.

Pericolo a breve termine (acuto) per
l'ambiente acquatico, Categoria 1

H400: Molto tossico per gli organismi acquatici.

Pericolo a lungo termine (cronico) per
l'ambiente acquatico, Categoria 1

H410: Molto tossico per gli organismi acquatici con
effetti di lunga durata.

*gli elementi che non presentano indicazione sono: non classificato, senza classificazione o
classificazione non possibile.

2.2 Elementi dell'etichetta

Etichettatura (REGOLAMENTO (CE) N. 1272/2008)

Pittogrammi di pericolo :



Avvertenza : Pericolo

Indicazioni di pericolo : H225 Liquido e vapori facilmente infiammabili.
H315 Provoca irritazione cutanea.
H317 Può provocare una reazione allergica cutanea.
H319 Provoca grave irritazione oculare.
H336 Può provocare sonnolenza o vertigini.
H410 Molto tossico per gli organismi acquatici con effetti di
lunga durata.

Consigli di prudenza : **Prevenzione:**
P210 Tenere lontano da fonti di calore, superfici calde, scintille,
fiamme libere o altre fonti di accensione. Non fumare.
P233 Tenere il recipiente ben chiuso.
P273 Non disperdere nell'ambiente.
P280 Indossare guanti/ indumenti protettivi/ proteggere gli
occhi/ proteggere il viso/ proteggere l'udito.

Reazione:

P370 + P378 In caso di incendio: utilizzare Nebbia acquosa,
Schiuma, Polvere chimica, Anidride carbonica (CO₂), Sabbia
asciutta, ecc. per estinguere.
P391 Raccogliere il materiale fuoriuscito.

Componenti pericolosi da segnalare in etichetta:

cicloesano
acetato di etile
rosina, prodotti di reazione oligomerica con acido isoftalico e pentaeritritolo
anidride maleica

Etichettatura aggiuntiva

La seguente percentuale della miscela è costituita da un ingrediente (i) di tossicità acuta ignota
per via cutanea: 1 %

La seguente percentuale della miscela è costituita da un ingrediente (i) di tossicità acuta ignota
per inalazione: 20 %

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2.3 Altri pericoli

Questa sostanza/miscela non contiene componenti considerati sia persistenti, bioaccumulabili che tossici (PBT), oppure molto persistenti e molto bioaccumulabili (vPvB) a concentrazioni di 0.1% o superiori.

informazioni ecologiche: La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

informazioni tossicologiche: La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

SEZIONE 3: composizione/informazioni sugli ingredienti

3.2 Miscela

Nome Chimico	N. CAS N. CE N. INDICE Numero di registrazione	Classificazione	Concentrazione
	-	-	19%
		Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Fattore-M (Tossicità acuta per l'ambiente acquatico): 1	56%
		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	24%
		Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 4; H413	1%

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		Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 EUH071 limiti di concentrazione specifici Skin Sens. 1A; H317 ≥ 0.001 % Stima della tossicità acuta Tossicità acuta per via orale: 1090 mg/kg	< 0.001%
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Per spiegazioni sulle abbreviazioni vedi paragrafo 16.

SEZIONE 4: misure di primo soccorso

4.1 Descrizione delle misure di primo soccorso

- Informazione generale : Se i sintomi dovessero perdurare o se vi dovessero essere dubbi, consultare un medico.
- Protezione dei soccorritori : Indossare adeguati indumenti di protezione.
- Se inalato : IN CASO di esposizione o di malessere: Portare l'infortunato all'aria aperta.
Consultare immediatamente un medico se si presentano sintomi.
- In caso di contatto con la pelle : Togliere immediatamente gli indumenti e le scarpe contaminate.
Lavare subito con sapone ed acqua abbondante.
Consultare immediatamente un medico se si presentano sintomi.
- In caso di contatto con gli occhi : Sciacquare accuratamente ed abbondantemente con acqua per almeno 15 minuti e rivolgersi ad un medico.
Sciacquare tenendo l'occhio ben spalancato.
Sciacquare abbondantemente con molta acqua, anche sotto le palpebre.
Togliere le eventuali lenti a contatto se è agevole farlo.
Continuare a sciacquare.
Qualora persista l'irritazione agli occhi, consultare un medico.
- Se ingerito : NON indurre il vomito.
Non somministrare alcunché a persone svenute.
Sciacquare la bocca con acqua.
Mettere l'interessato in posizione di riposo e mantenerlo al caldo.
Consultare immediatamente un medico.
In caso di vomito naturale, piegare il corpo della persona per evitare l'inalazione nella trachea.

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C'è il rischio che il prodotto giunga ai polmoni se dopo l'ingestione si induce il vomito.

4.2 Principali sintomi ed effetti, sia acuti che ritardati

Non conosciuti.

4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali

Trattamento : Trattare sintomaticamente.

SEZIONE 5: misure antincendio

5.1 Mezzi di estinzione

Mezzi di estinzione idonei : Nebbia acquosa
Schiuma
Polvere chimica
Anidride carbonica
Sabbia asciutta

Mezzi di estinzione non idonei : getto d'acqua

5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela

Pericoli specifici contro l'incendio : Liquido infiammabile. I vapori possono causare un'infiammazione spontanea.

Prodotti di combustione pericolosi : Monossido di carbonio
Anidride carbonica

5.3 Raccomandazioni per gli addetti all'estinzione degli incendi

Dispositivi di protezione speciali per gli addetti all'estinzione degli incendi : Il personale antincendio deve indossare protezioni respiratorie e per gli occhi. Indossare il dispositivo di protezione completo ed un respiratore autonomo (SCBA) in caso di incendi all'interno e significativi incendi all'esterno.

Ulteriori informazioni : Tenere lontano il personale non necessario e non protetto. Rimuovere i contenitori integri dall'area dell'incendio se ciò può essere fatto in sicurezza. Spegnerne il fuoco da una posizione sopravento. Raffreddare i recipienti e l'ambiente circostante con acqua nebulizzata.

SEZIONE 6: misure in caso di rilascio accidentale

6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza

Precauzioni individuali : Riferirsi alle misure di protezione elencate nelle sezioni 7 e 8. Indossare adeguati indumenti di protezione. Marcare la zona contaminata con segnali e impedire l'accesso a personale non autorizzato. Tenere le persone lontane dalla perdita, sopravento. Allontanare immediatamente il personale verso zone sicure.

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Avvisare il personale di incendi, esplosioni e pericoli per la salute.
Eliminare tutte le sorgenti di combustione.

6.2 Precauzioni ambientali

Precauzioni ambientali : Non scaricare il flusso di lavaggio in acque di superficie o in sistemi fognari sanitari.
Non deve essere abbandonato nell'ambiente.
Se necessario, avvisare ed evacuare il vicinato.

6.3 Metodi e materiali per il contenimento e per la bonifica

Metodi di bonifica : Utilizzare solo utensili antiscintillamento.
Assorbire o coprire con terra asciutta, sabbia o altri materiali non combustibili e trasferire in contenitori sigillabili.
Grandi fuoriuscite: Arginare lontano dalla fuoriuscita di liquido per uno smaltimento successivo.
Bloccare la perdita se non c'è pericolo.
Evitare che il materiale s'infiltri nelle canalizzazioni o nei corsi d'acqua.
Se un prodotto non acquoso confluisce nell'acqua, utilizzare materiale assorbente adeguato per raccogliere il prodotto.

6.4 Riferimento ad altre sezioni

Vedere Sezione 8 per i dispositivi di protezione individuale.

SEZIONE 7: manipolazione e immagazzinamento

7.1 Precauzioni per la manipolazione sicura

Misure tecnici : Installare attrezzatura appropriata e indossare l'equipaggiamento di protezione personale appropriato (vedere "8. Controllo dell'esposizione/protezione personale").
Usare un'attrezzatura a prova di esplosione.
Prendere precauzioni contro le scariche elettrostatiche.
Usare soltanto in luogo ben ventilato.
Tenere lontano da fonti di calore, scintille e fiamme.
Questo materiale può formare miscele esplosive con l'aria.
Attenzione alle perdite di vapore.

Avvertenze per un impiego sicuro : Non manipolare prima di avere letto e compreso tutte le avvertenze.
Prevenire perdite e fuoriuscite. Evitare la formazione di vapore.
Non far cadere, urtare o trascinare il contenitore.
Evitare l'inalazione, l'ingestione e il contatto con la pelle e con gli occhi.
Utilizzare soltanto all'aperto o in luogo ben ventilato.

Misure di igiene : Lavare accuratamente le mani dopo l'uso.
Non mangiare, né bere, né fumare durante l'uso.

7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità

Requisiti del magazzino e dei contenitori : Conservare secondo le particolari regolamentazioni nazionali.
Tenere i contenitori ben chiusi in un luogo secco, fresco e ben ventilato.
Tenere lontano da fonti di calore, scintille e fiamme.

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Conservare sotto chiave.
Mettere a terra/massa il contenitore e il dispositivo ricevente.

Indicazioni per il
magazzinaggio insieme ad
altri prodotti : Conservare lontano da materiali incompatibili (vedere sezione 10).

Materiale di imballaggio : Contenitori in acciaio

7.3 Usi finali particolari

Usi particolari : vedere sezione 1.2.

SEZIONE 8: controllo dell'esposizione/protezione individuale

8.1 Parametri di controllo

Limiti di esposizione professionale

Componenti	N. CAS	Tipo di valore (Tipo di esposizione)	Parametri di controllo	Base
		TWA	200 ppm 700 mg/m ³	2006/15/EC
		STEL	400 ppm 1468 mg/m ³	2017/164/EU
		TWA	200 ppm 734 mg/m ³	
		AGW	200 ppm 700 mg/m ³	DE TRGS 900
		AGW	200 ppm 730 mg/m ³	DE TRGS 900
		AGW (Vapore e aerosol)	0.02 ppm 0.081 mg/m ³	DE TRGS 900
		TWA	100 ppm 350 mg/m ³	IT VLEP
		TWA	200 ppm 734 mg/m ³	IT VLEP
		STEL	400 ppm 1468 mg/m ³	

Valore limite biologico professionale

Componenti	N. CAS	Parametri di controllo	Tempo di campionamento	Base
			In caso di esposizione a lungo termine : dopo più di un turno, fine dell'esposizione / del turno	DE TRGS 903

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8.2 Controlli dell'esposizione

Le misure tecniche e l'applicazione di adeguati metodi di lavorazione hanno la priorità rispetto agli equipaggiamenti di protezione individuale.

Controlli tecnici idonei

Assicurarsi che i lava-occhi e le docce di emergenza siano vicine alla postazione di lavoro.
Utilizzare un sistema chiuso o una ventilazione a estrazione locale.

Protezione individuale

Protezione degli occhi : Occhiali di sicurezza con protezione laterale conformemente alla norma EN166

Protezione delle mani : Utilizzare guanti protettivi adatti, resistenti agli agenti chimici secondo EN374, ad esempio Honeywell KCL Butoject 898 (Possono essere utilizzati anche altri guanti adatti, di altri fornitori).
Materiale: gomma butilica
Tempo di permeazione: 120 min
Spessore del guanto: 0.7 mm

Vogliate osservare le istruzioni riguardo la permeabilità e il tempo di penetrazione che sono fornite dal fornitore di guanti.
Vogliate inoltre prendere in considerazione le condizioni locali specifiche nelle quali viene usato il prodotto, quali pericolo di tagli, abrasione e durata del contatto.

Protezione della pelle e del corpo : Indossare indumenti di protezione chimica totale.

Protezione respiratoria : Se le misure di ventilazione sono insufficienti, o assenti, devono essere adottate delle misure di protezione delle vie respiratorie, ad esempio delle maschere di protezione dai gas: gas-filtro A (marrone).
Il tempo massimo consentito per l'utilizzo delle maschere di protezione dipende dal livello di concentrazione dei gas.
Si prega di osservare le indicazioni fornite dal fornitore.

Controlli dell'esposizione ambientale

Informazione generale : Non scaricare il flusso di lavaggio in acque di superficie o in sistemi fognari sanitari.
Non deve essere abbandonato nell'ambiente.
Se necessario, avvisare ed evacuare il vicinato.

SEZIONE 9: proprietà fisiche e chimiche

9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

Stato fisico : liquido

Forma : liquido

Colore : giallo chiaro

Odore : tipo solvente

Punto/intervallo di fusione : nessun dato disponibile

Punto/intervallo di ebollizione : 77 °C
(Stima basata sui componenti)

Inflammabilità : Inflammabile

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Limite superiore di esplosività / Limite superiore di infiammabilità	: nessun dato disponibile
Limite inferiore di esplosività / Limite inferiore di infiammabilità	: nessun dato disponibile
Punto di infiammabilità	: <= -20 °C Metodo: Tazza chiusa Tag
Temperatura di autoaccensione	: nessun dato disponibile
Temperatura di decomposizione	
Temperatura di decomposizione	: nessun dato disponibile
Temperatura di decomposizione auto- accelerata (TDAA / SADT)	: nessun dato disponibile
pH	: non misurabile
Viscosità	
Viscosità, cinematica	: 130 mm ² /s (40 °C)
La solubilità/ le solubilità.	
Idrosolubilità	: nessun dato disponibile
Coefficiente di ripartizione: n-ottanolo/acqua	: nessun dato disponibile
Tensione di vapore	: nessun dato disponibile
Densità relativa	: nessun dato disponibile
Densità	: nessun dato disponibile
Densità di vapore relativa	: nessun dato disponibile
Caratteristiche delle particelle	
Dimensione della particella	: Non applicabile

9.2 Altre informazioni

nessun dato disponibile

SEZIONE 10: stabilità e reattività

10.1 Reattività

nessun dato disponibile

10.2 Stabilità chimica

Stabile in condizioni normali.

10.3 Possibilità di reazioni pericolose

nessun dato disponibile

10.4 Condizioni da evitare

Condizioni da evitare : Fonte di calore

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10.5 Materiali incompatibili

nessun dato disponibile

10.6 Prodotti di decomposizione pericolosi

Monossido di carbonio
Anidride carbonica

SEZIONE 11: informazioni tossicologiche

11.1 Informazioni sulle classi di pericolo definite nel regolamento (CE) n. 1272/2008

Tossicità acuta

Componenti:

[REDACTED]

Tossicità acuta per via orale : DL50 (Ratto): > 5000 mg/kg

Tossicità acuta per inalazione : CL50 (Ratto): > 32.88 mg/l
Tempo di esposizione: 4 h
Atmosfera test: vapore
Osservazioni: Nessun decesso osservato per questo dosaggio.

Tossicità acuta per via cutanea : DL50 (Su coniglio): > 2000 mg/kg
Osservazioni: Nessun decesso osservato per questo dosaggio.

[REDACTED]

Tossicità acuta per via orale : DL50 (Ratto): 10200 mg/kg

Tossicità acuta per inalazione : LCLo (Ratto): > 22.5 mg/l
Tempo di esposizione: 6 h
Atmosfera test: vapore
Osservazioni: Nessun decesso osservato per questo dosaggio.

Tossicità acuta per via cutanea : DL50 (Su coniglio): > 20000 mg/kg

[REDACTED]

Tossicità acuta per via orale : DL50 (Ratto): > 5000 mg/kg
Osservazioni: L'informazione data è fondata su dati ottenuti da sostanze simili.

[REDACTED]

Tossicità acuta per via orale : DL50 (Ratto): 1090 mg/kg

Tossicità acuta per inalazione : CL50 (Ratto): > 4.35 mg/l
Tempo di esposizione: 1 h
Atmosfera test: vapore
Osservazioni: Nessun decesso osservato per questo dosaggio.

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Tossicità acuta per via cutanea : DL50 (Su coniglio): 2620 mg/kg

Corrosione/irritazione cutanea

Componenti:

Specie : Su coniglio
Risultato : Irritante per la pelle

Specie : Su coniglio
Risultato : Nessuna irritazione della pelle

Specie : Su coniglio
Metodo : Linee Guida 404 per il Test dell'OECD
Risultato : Nessuna irritazione della pelle
Osservazioni : L'informazione data è fondata su dati ottenuti da sostanze simili.

Specie : Su coniglio
Risultato : Corrosivo per la pelle

Lesioni oculari gravi/irritazioni oculari gravi

Componenti:

Specie : Su coniglio
Risultato : lieve irritazione

Specie : Su coniglio
Risultato : lieve irritazione

Specie : Su coniglio
Risultato : Nessuna irritazione agli occhi

Specie : Su coniglio
Metodo : Linee Guida 405 per il Test dell'OECD
Risultato : Irritante per gli occhi
Osservazioni : L'informazione data è fondata su dati ottenuti da sostanze simili.

Specie : Su coniglio
Risultato : Corrosivo

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Sensibilizzazione respiratoria o cutanea

Componenti:

Tipo di test : Buehler Test
Risultato : negativo

Tipo di test : Maximisation Test
Specie : Porcellino d'India
Risultato : negativo

Tipo di test : Saggio dei linfonodi locali (LLNA)
Specie : Topo
Valutazione : Può provocare sensibilizzazione per contatto con la pelle.
Metodo : Linee Guida 429 per il Test dell'OECD
Risultato : positivo
Osservazioni : L'informazione data è fondata su dati ottenuti da sostanze simili.

Tipo di test : Saggio dei linfonodi locali (LLNA)
Specie : Topo
Valutazione : Il prodotto è un sensibilizzante della pelle, sottocategoria 1A.
Risultato : positivo

Via di esposizione : Inalazione
Specie : Ratto
Risultato : Può provocare sensibilizzazione per inalazione.

Mutagenicità delle cellule germinali

Componenti:

Genotossicità in vitro : Tipo di test: Test di ames
Risultato: negativo
Tipo di test: MLA (saggio sul linfoma nel topo)
Risultato: negativo

Genotossicità in vivo : Tipo di test: Aberrazione cromosomica
Risultato: negativo

Genotossicità in vitro : Tipo di test: Test di ames
Risultato: negativo
Tipo di test: Aberrazione cromosomica
Risultato: negativo

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Genotossicità in vivo : Tipo di test: Test del micronucleo
Specie: Criceto
Risultato: negativo

Genotossicità in vitro : Tipo di test: Test di ames
Metodo: Linee Guida 471 per il Test dell'OECD
Risultato: negativo
Osservazioni: L'informazione data è fondata su dati ottenuti da sostanze simili.

Tipo di test: Aberrazione cromosomica in vitro
Metodo: Linee Guida 473 per il Test dell'OECD
Risultato: negativo
Osservazioni: L'informazione data è fondata su dati ottenuti da sostanze simili.

Tipo di test: Test in vitro di mutazione genica su cellule di mammifero
Metodo: Linee Guida 476 per il Test dell'OECD
Risultato: negativo
Osservazioni: L'informazione data è fondata su dati ottenuti da sostanze simili.

Genotossicità in vitro : Tipo di test: Test di ames
Risultato: negativo

Genotossicità in vivo : Tipo di test: Aberrazione cromosomica
Specie: Ratto
Tipo di cellula: Midollo osseo
Risultato: negativo

Cancerogenicità

nessun dato disponibile

Tossicità riproduttiva

Componenti:

Tossicità riproduttiva - Valutazione : Non tossico per la riproduzione

Tossicità riproduttiva - Valutazione : Non tossico per la riproduzione
Non ha mostrato effetti teratogeni negli esperimenti su animali.

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Tossicità specifica per organi bersaglio (STOT) - esposizione singola

Componenti:

[REDACTED]

Valutazione : La sostanza o la miscela è classificata come intossicante per un organo bersaglio specifico, per esposizione singola, categoria 3 con effetti narcotici.

[REDACTED]

Valutazione : La sostanza o la miscela è classificata come intossicante per un organo bersaglio specifico, per esposizione singola, categoria 3 con effetti narcotici.

Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta

Componenti:

[REDACTED]

Via di esposizione : Inalazione
Organi bersaglio : Sistema respiratorio
Valutazione : La sostanza o la miscela è classificata come intossicante per un organo bersaglio specifico, per esposizione ripetuta, categoria 1.

Tossicità per aspirazione

Componenti:

[REDACTED]

Può essere letale in caso di ingestione e di penetrazione nelle vie respiratorie.

11.2 Informazioni su altri pericoli

Proprietà di interferenza con il sistema endocrino

Prodotto:

Valutazione : La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

SEZIONE 12: informazioni ecologiche

12.1 Tossicità

Componenti:

[REDACTED]

Tossicità per i pesci : CL50 (Pimephales promelas (Cavedano americano)): 4.53 mg/l
Tempo di esposizione: 96 h

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Tossicità per la daphnia e per altri invertebrati acquatici : CE50 (Daphnia magna (Pulce d'acqua grande)): 0.9 mg/l
Tempo di esposizione: 48 h

Tossicità per le alghe/piante acquatiche : CE50r (Pseudokirchneriella subcapitata (alghe cloroficee)): > 4.425 mg/l
Tempo di esposizione: 72 h

NOEC (Pseudokirchneriella subcapitata (alghe cloroficee)): 0.94 mg/l
Tempo di esposizione: 72 h

Fattore-M (Tossicità acuta per l'ambiente acquatico) : 1

acetato di etile:

Tossicità per i pesci : CL50 (Pimephales promelas (Cavedano americano)): 230 mg/l
Tempo di esposizione: 96 h

Tossicità per la daphnia e per altri invertebrati acquatici : CE50 (Daphnia cucullata (Pulce d'acqua)): 165 mg/l
Tempo di esposizione: 48 h

Tossicità per le alghe/piante acquatiche : NOEC (Desmodesmus subspicatus (alga verde)): > 100 mg/l
Tempo di esposizione: 72 h

Tossicità per i pesci (Tossicità cronica) : NOEC: 6.9 mg/l
Tempo di esposizione: 32 d

Tossicità per la daphnia e per altri invertebrati acquatici (Tossicità cronica) : NOEC: 2.4 mg/l
Tempo di esposizione: 21 d
Specie: Daphnia magna (Pulce d'acqua grande)

rosina, prodotti di reazione oligomerica con acido isoftalico e pentaeritritolo:

Tossicità per la daphnia e per altri invertebrati acquatici : CE50 (Daphnia magna (Pulce d'acqua grande)): > 100 mg/l
Tempo di esposizione: 48 h
Osservazioni: L'informazione data è fondata su dati ottenuti da sostanze simili.

Valutazione Ecotossicologica

Tossicità cronica per l'ambiente acquatico : Può essere nocivo per gli organismi acquatici con effetti di lunga durata.

anidride maleica:

Tossicità per i pesci : CL50 (Oncorhynchus mykiss (Trota iridea)): 75 mg/l
Tempo di esposizione: 96 h

Tossicità per la daphnia e per altri invertebrati acquatici : CE50 (Daphnia magna (Pulce d'acqua grande)): 42.81 mg/l
Tempo di esposizione: 48 h

Tossicità per le alghe/piante acquatiche : CE50 (Pseudokirchneriella subcapitata (alghe cloroficee)): 74.35 mg/l
Tempo di esposizione: 72 h

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Sostanza da sottoporre al test: acido maleico (prodotto di idrolisi)

Tossicità per la daphnia e per altri invertebrati acquatici (Tossicità cronica) : NOEC: 10 mg/l
Tempo di esposizione: 21 d
Specie: Daphnia magna (Pulce d'acqua grande)

CE50: 77 mg/l
Tempo di esposizione: 21 d
Specie: Daphnia magna (Pulce d'acqua grande)

12.2 Persistenza e degradabilità

Componenti:

Biodegradabilità : Risultato: Rapidamente biodegradabile.
Biodegradazione: 77 %
Relativo a: Domanda biochimica di ossigeno
Tempo di esposizione: 28 d

Biodegradabilità : Risultato: Rapidamente biodegradabile.
Biodegradazione: 79 %
Relativo a: Domanda biochimica di ossigeno
Tempo di esposizione: 20 d

Biodegradabilità : Tipo di test: aerobico
Inoculo: fango attivo
Risultato: Non immediatamente biodegradabile.
Biodegradazione: 46 %
Metodo: Saggio di sviluppo di biossido di carbonio (CO₂)
Osservazioni: L'informazione data è fondata su dati ottenuti da sostanze simili.

Biodegradabilità : Inoculo: fango attivo
Risultato: Rapidamente biodegradabile.
Biodegradazione: 93 %
Tempo di esposizione: 11 d
Osservazioni: Idrolizza a contatto con acqua.

Inoculo: fango attivo
Risultato: Rapidamente biodegradabile.
Biodegradazione: > 90 %
Tempo di esposizione: 25 d
Sostanza da sottoporre al test: acido maleico (prodotto di idrolisi)

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Stabilità nell'acqua : Tipo di test: Idrolisi
Tempo di dimezzamento per la degradazione (TD50): 0.3 min (25.1 °C)
pH: 7
Osservazioni: La sostanza idrolizza rapidamente.

12.3 Potenziale di bioaccumulo

Componenti:

Bioaccumulazione : Fattore di bioconcentrazione (BCF): 31 - 129
Osservazioni: La bioaccumulazione è improbabile.

Coefficiente di ripartizione: : log Pow: 3.44 (25 °C)
n-ottanolo/acqua

Bioaccumulazione : Fattore di bioconcentrazione (BCF): 30
Osservazioni: La bioaccumulazione è improbabile.

Coefficiente di ripartizione: : log Pow: 0.68 (25 °C)
n-ottanolo/acqua

Bioaccumulazione : Osservazioni: La bioaccumulazione è improbabile.

Sostanza da sottoporre al test: acido maleico (prodotto di idrolisi)

Osservazioni: A causa del coefficiente di ripartizione n-ottanolo/acqua, l'accumulo negli organismi non è previsto.

Coefficiente di ripartizione: : log Pow: -2.61 (20 °C)
n-ottanolo/acqua
Sostanza da sottoporre al test: acido maleico (prodotto di idrolisi)

12.4 Mobilità nel suolo

nessun dato disponibile

12.5 Risultati della valutazione PBT e vPvB

Prodotto:

Valutazione : Questa sostanza/miscela non contiene componenti considerati sia persistenti, bioaccumulabili che tossici (PBT), oppure molto persistenti e molto bioaccumulabili (vPvB) a concentrazioni di 0.1% o superiori.

12.6 Proprietà di interferenza con il sistema endocrino

Prodotto:

Valutazione : La sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina ai sensi dell'articolo 57(f) del REACH o del regolamento delegato (UE) 2017/2100 della Commissione o del regolamento (UE) 2018/605 della Commissione a livelli dello 0,1% o superiori.

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12.7 Altri effetti avversi

nessun dato disponibile

SEZIONE 13: considerazioni sullo smaltimento

13.1 Metodi di trattamento dei rifiuti

- Prodotto : Conformemente ai regolamenti locali e nazionali.
Eliminare i rifiuti in un impianto regolamentare per
l'eliminazione dei rifiuti.
Quando si esternalizza il trattamento dei rifiuti, assicurarsi di
segnalare alla società che si occupa del trattamento per
quanto riguarda i rischi prima dell'esternalizzazione.
- Contenitori contaminati : Svuotare i contenuti residui.
I contenitori vuoti dovrebbero essere trasportati in un sito
autorizzato per il riciclaggio o l'eliminazione.

SEZIONE 14: informazioni sul trasporto

14.1 Numero ONU o numero ID

- ADN : UN 1866
ADR : UN 1866
RID : UN 1866
IMDG : UN 1866
IATA : UN 1866

14.2 Nome di spedizione dell'ONU

- ADN : RESINA IN SOLUZIONE
ADR : RESINA IN SOLUZIONE
RID : RESINA IN SOLUZIONE
IMDG : RESIN SOLUTION
IATA : Resin solution

14.3 Classi di pericolo connesso al trasporto

- ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

14.4 Gruppo di imballaggio

- ADN
Gruppo di imballaggio : II
Codice di classificazione : F1

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N. di identificazione del pericolo : 33
Etichette : 3

ADR

Gruppo di imballaggio : II
Codice di classificazione : F1
N. di identificazione del pericolo : 33
Etichette : 3
Codice di restrizione in galleria : (D/E)

RID

Gruppo di imballaggio : II
Codice di classificazione : F1
N. di identificazione del pericolo : 33
Etichette : 3

IMDG

Gruppo di imballaggio : II
Etichette : 3
EmS Codice : F-E, S-E

IATA (Cargo)

Istruzioni per l'imballaggio (aereo da carico) : 364
Istruzioni di imballaggio (LQ) : Y341
Gruppo di imballaggio : II
Etichette : 3

IATA (Passeggero)

Istruzioni per l'imballaggio (aereo passeggeri) : 353
Istruzioni di imballaggio (LQ) : Y341
Gruppo di imballaggio : II
Etichette : 3

14.5 Pericoli per l'ambiente

ADN

Pericoloso per l'ambiente : si

ADR

Pericoloso per l'ambiente : si

RID

Pericoloso per l'ambiente : si

IMDG

Inquinante marino : si

IATA

Pericoloso per l'ambiente : si

14.6 Precauzioni speciali per gli utilizzatori

Osservazioni : Verificare che il contenitore non presenti rotture, corrosione o perdite.
Non far cadere o urtare il contenitore. Evitare che gli scaffali cadano.

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Attenersi alle prescrizioni regolamentari sull'imballaggio,
l'etichettatura e il trasporto.

14.7 Trasporto marittimo alla rinfusa conformemente agli atti dell'IMO

Non applicabile al prodotto nella sua forma fornita.

SEZIONE 15: informazioni sulla regolamentazione

15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela

REACH - Restrizioni in materia di fabbricazione, immissione sul mercato e uso di talune sostanze, miscele e articoli pericolosi (Allegato XVII) : Devono essere considerate le condizioni di restrizione per le seguenti voci:
Numero nell'elenco 3
cicloesano (Numero nell'elenco 57)

REACH - Elenco di sostanze estremamente problematiche candidate per l'autorizzazione (Articolo 59). : Non applicabile

REACH - Elenco delle sostanze soggette ad autorizzazione (Allegato XIV) : Non applicabile

Regolamento (CE) n. 1005/2009 sulle sostanze che riducono lo strato di ozono : Non applicabile

Regolamento (UE) 2019/1021 relativo agli inquinanti organici persistenti (rifusione) : Non applicabile

Regolamento (CE) n. 649/2012 del Parlamento europeo e del Consiglio sull'esportazione ed importazione di sostanze chimiche pericolose : Non applicabile

Seveso III: Direttiva 2012/18/UE del Parlamento europeo e del Consiglio sul controllo del pericolo di incidenti rilevanti connessi con sostanze pericolose.

P5c LIQUIDI INFIAMMABILI

E1 PERICOLI PER L'AMBIENTE

15.2 Valutazione della sicurezza chimica

Non è stata eseguita alcuna valutazione della sicurezza chimica.

SEZIONE 16: altre informazioni

Testo completo delle Dichiarazioni-H

H225 : Liquido e vapori facilmente infiammabili.
H302 : Nocivo se ingerito.
H304 : Può essere letale in caso di ingestione e di penetrazione nelle vie respiratorie.
H314 : Provoca gravi ustioni cutanee e gravi lesioni oculari.
H315 : Provoca irritazione cutanea.
H317 : Può provocare una reazione allergica cutanea.
H318 : Provoca gravi lesioni oculari.
H319 : Provoca grave irritazione oculare.
H334 : Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.

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H336	:	Può provocare sonnolenza o vertigini.
H372	:	Provoca danni agli organi in caso di esposizione prolungata o ripetuta se inalato.
H400	:	Molto tossico per gli organismi acquatici.
H410	:	Molto tossico per gli organismi acquatici con effetti di lunga durata.
H413	:	Può essere nocivo per gli organismi acquatici con effetti di lunga durata.
EUH066	:	L'esposizione ripetuta può provocare secchezza o screpolature della pelle.
EUH071	:	Corrosivo per le vie respiratorie.

Testo completo di altre abbreviazioni

Acute Tox.	:	Tossicità acuta
Aquatic Acute	:	Pericolo a breve termine (acuto) per l'ambiente acquatico
Aquatic Chronic	:	Pericolo a lungo termine (cronico) per l'ambiente acquatico
Asp. Tox.	:	Pericolo in caso di aspirazione
Eye Dam.	:	Lesioni oculari gravi
Eye Irrit.	:	Irritazione oculare
Flam. Liq.	:	Liquidi infiammabili
Resp. Sens.	:	Sensibilizzazione delle vie respiratorie
Skin Corr.	:	Corrosione cutanea
Skin Irrit.	:	Irritazione cutanea
Skin Sens.	:	Sensibilizzazione cutanea
STOT RE	:	Tossicità specifica per organi bersaglio - esposizione ripetuta
STOT SE	:	Tossicità specifica per organi bersaglio - esposizione singola
TWA	:	Time-Weighted Average (Media ponderata in funzione del tempo)
AGW	:	Arbeitsplatzgrenzwert (Germania - Limiti per l'esposizione professionale)
STEL	:	Short Term Exposure Limit (Limite di esposizione a breve termine)

PBT - Persistente, Bioaccumulabile e Tossico;
vPvB - molto Persistente e molto Bioaccumulabile

Ulteriori informazioni

Indicazioni
sull'addestramento : Messa a disposizione degli operatori di informazioni, istruzioni e formazione.

Fonti dei dati principali
utilizzati per compilare la
scheda : Dati interni
Informazioni acquisite dalla documentazione

Classificazione della miscela:

Procedura di classificazione:

Flam. Liq. 2	H225	Basato su dati o valutazione di prodotto
Skin Irrit. 2	H315	Metodo di calcolo
Eye Irrit. 2	H319	Metodo di calcolo
Skin Sens. 1	H317	Metodo di calcolo
STOT SE 3	H336	Metodo di calcolo
Aquatic Acute 1	H400	Metodo di calcolo
Aquatic Chronic 1	H410	Metodo di calcolo

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Nota di Revisione : Rispetto alla precedente, questa scheda di sicurezza contiene le seguenti variazioni nella sezione: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

Le informazioni riportate in questa Scheda di Sicurezza sono corrette secondo le nostre migliori conoscenze del prodotto al momento della pubblicazione. Tali informazioni vengono fornite con l'unico scopo di consentire l'utilizzo, lo stoccaggio, il trasporto e lo smaltimento del prodotto nei modi più corretti e sicuri. Queste informazioni non devono considerarsi una garanzia od una specifica della qualità del prodotto. Esse si riferiscono soltanto al materiale specificatamente indicato e non sono valide per lo stesso quando usato in combinazione con altri materiali o in altri processi non specificatamente indicati nel testo della Scheda di Sicurezza del Materiale.