



# SÜDWEST Lotusan Therm

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	<b>Prevention:</b> P273 <b>Disposal:</b> P501	Avoid release to the environment.  Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

### Additional Labelling:

EUH208	Contains mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. For 2-Methyl-2H-Isothiazol-3-one (MIT), a labelling threshold of 15 ppm is voluntarily used in accordance with the CEPE recommendation (instead of 100 ppm).
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### Regulation concerning biocidal products (528/2012):

Contains Terbutryn, isoproturon, 3-iodo-2-propynyl butylcarbamate, 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 2-methyl-2H-isothiazol-3-one. As active agents for coating and storage protection in accordance with Biocidal Product Regulation (528/2012), Article 58(3)

## 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical nature	Water-based silicone resin exterior paint.
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**SÜDWEST Lotusan Therm****Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
isoproturon	34123-59-6 251-835-4	Carc.2; H351 Aquatic Acute1; H400 Aquatic Chronic1; H410	≥ 0,1 - < 0,14
Terbutryn	886-50-0 212-950-5	Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	≥ 0,025 - < 0,08
3-iodo2-propynyl butylcarbamate	55406-53-6 259-627-5	STOT RE1; H372 Eye Dam.1; H318 Acute Tox.3; H331 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410 Acute Tox.4; H302	≥ 0,0025 - < 0,02
mixture of: 5-chloro- 2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Acute Tox.2; H330 Acute Tox.2; H310 Acute Tox.3; H301 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	≤ 0,0002

For explanation of abbreviations see section 16.

<b>SECTION 4: FIRST AID MEASURES</b>
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**4.1 Description of first aid measures**

## General advice

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Never give anything by mouth to an unconscious person.  
If unconscious, place in recovery position and seek medical advice.

## Inhalation

Remove to fresh air.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
If symptoms persist, call a physician.

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Skin contact	Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention. Keep at rest.

## 4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Treat symptomatically. No information available.
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical Water spray
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Unsuitable extinguishing media	High volume water jet
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### 5.2 Special hazards arising from the substance or mixture

Fire may cause evolution of:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Exposure to decomposition products may be a hazard to health.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### Additional advice

Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SÜDWEST Lotusan Therm****SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
Do not breathe vapour.

**6.2 Environmental precautions**

The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Clean with detergents. Avoid solvents.  
Dispose of contaminated material as waste according to item 13.  
Clean contaminated surface thoroughly.

**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

## Advice on safe handling

Avoid contact with skin and eyes.  
Prevent unauthorized access.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Comply with the statutory regulations on health and safety at work.

## Hygiene measures

Wash hands before breaks and at the end of workday.  
When using do not eat, drink or smoke.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

## Requirements for storage areas and containers

Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in original container.  
Observe label precautions.  
Protect from frost, heat and sunlight.

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Advice on common storage

Keep away from oxidizing agents and strongly acid or alkaline materials.

## 7.3 Specific end use(s)

For further information, see also Technical Data Sheet for the product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

The lists that were valid during the creation were used as basis. Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation.

#### Individual protection measures, such as personal protective equipment

##### a) Eye/face protection

Wear protective goggles for protection against splashed liquid.

Safety glasses with side-shields conforming to EN166

##### b) Skin protection

###### Hand protection

Recommended preventive skin protection

Before starting work, apply water-resistant skincare preparations to exposed skin areas.

Protective gloves should be worn in case of skin contact during preparation and application.

Break through time: 480 min

Minimum thickness: 0,11 mm

Gloves made of nitrile rubber, e.g. KCL 740 Dermatril® (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent.

Cotton undergloves are recommendable when wearing protective gloves!

Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different

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from one producer to the other.

**Body Protection**

Work clothes  
Skin should be washed after contact.  
Do NOT use solvents or thinners.

**c) Respiratory protection**

No personal respiratory protective equipment normally required.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Employees involved in spraying work or in the immediate vicinity of such work should use a P2 particle filter against spray fog.  
Respiratory protection complying with EN 143.

**Environmental exposure controls****General advice**

The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	liquid
Colour	white
Odour	characteristic
Odour Threshold	No data available
pH	ca. 9 - 10 (20 °C)
Melting point/freezing point	< 0 °C
Initial boiling point and boiling range	No data available
Flash point	> 100 °C
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Upper explosion limit / Upper flammability limit	No data available

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Lower explosion limit / Lower flammability limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	ca. 1,45 - 1,55 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	completely miscible
Partition coefficient: n- octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	No data available
Viscosity Viscosity, dynamic	ca. 1.400 - 2.700 mPa.s (20 °C)
Explosive properties	Not explosive
Oxidizing properties	Not applicable

## 9.2 Other information

Flow time	No data available
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions                      This information is not available.

### 10.4 Conditions to avoid

Conditions to avoid                      Stable under recommended storage and handling conditions (see section 7).

### 10.5 Incompatible materials



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Materials to avoid                      Strong acids and strong bases  
    Strong oxidizing agents

## 10.6 Hazardous decomposition products

Hazardous decomposition products      No decomposition if stored and applied as directed.  
Decomposition temperature                No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity                              Based on available data, the classification criteria are not met.

Acute inhalation toxicity                      Based on available data, the classification criteria are not met.

Acute dermal toxicity                            Based on available data, the classification criteria are not met.

##### Components:

##### Terbutryn:

Acute oral toxicity                              LD50 (Rat): 1.000 - 1.470 mg/kg

Acute dermal toxicity                            LD50 (Rabbit): > 2.000 mg/kg

##### 3-iodo2-propynyl butylcarbamate:

Acute oral toxicity                              Harmful if swallowed.

Acute inhalation toxicity                      LC50 (Rat): 3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

##### mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Acute oral toxicity                              Toxic if swallowed.

Acute inhalation toxicity                      Fatal if inhaled.

Acute dermal toxicity                            Fatal in contact with skin.

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## Skin corrosion/irritation

### Product:

Based on available data, the classification criteria are not met.

### Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Causes severe skin burns and eye damage.

## Serious eye damage/eye irritation

### Product:

Based on available data, the classification criteria are not met.

### Components:

3-iodo2-propynyl butylcarbamate:

Causes serious eye damage.

## Respiratory or skin sensitisation

### Product:

Based on available data, the classification criteria are not met.

### Components:

3-iodo2-propynyl butylcarbamate:

May cause an allergic skin reaction.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

May cause an allergic skin reaction.

## Germ cell mutagenicity

### Product:

Genotoxicity in vitro

Based on available data, the classification criteria are not met.

## Carcinogenicity

### Product:

Based on available data, the classification criteria are not met.

### Components:

isoproturon:

Suspected of causing cancer.

## Reproductive toxicity

### Product:

Effects on fertility

Based on available data, the classification criteria are not met.

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Developmental Toxicity      Based on available data, the classification criteria are not met.

**STOT - single exposure****Product:**

Based on available data, the classification criteria are not met.

**STOT - repeated exposure****Product:**

Based on available data, the classification criteria are not met.

**Components:****3-iodo2-propynyl butylcarbamate:**

Exposure routes	Inhalation
Target Organs	larynx
Assessment	Causes damage to organs through prolonged or repeated exposure.

**Aspiration toxicity****Product:**

Based on available data, the classification criteria are not met.

**Further information****Product:**

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity****Product:**

Toxicity to fish      No data available

**Components:****isoproturon :**

Toxicity to daphnia and other aquatic invertebrates      EC50 (Daphnia magna (Water flea)): > 1 mg/l  
Exposure time: 48 h

M-Factor (Short-term (acute) aquatic hazard)      10

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M-Factor (Long-term (chronic) aquatic hazard)	10
<b>Terbutryn :</b>	
Toxicity to fish	LC50 ( <i>Lepomis macrochirus</i> (Bluegill sunfish)): 1,1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 ( <i>Daphnia</i> (water flea)): 2,66 mg/l Exposure time: 48 h
M-Factor (Short-term (acute) aquatic hazard)	10
Toxicity to fish (Chronic toxicity)	NOEC: 0,01 mg/l Exposure time: 21 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 1,3 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea)
M-Factor (Long-term (chronic) aquatic hazard)	10
<b>3-iodo2-propynyl butylcarbamate :</b>	
Toxicity to fish	LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 0,067 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50 ( <i>Daphnia magna</i> (Water flea)): 0,16 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	EC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 0,049 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 0,0046 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Short-term (acute) aquatic hazard)	10
Toxicity to fish (Chronic toxicity)	NOEC: 0,0084 mg/l Exposure time: 35 d Species: <i>Pimephales promelas</i> (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0,010 mg/l Exposure time: 21 d Species: <i>Daphnia</i> (water flea)

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Method: OECD Test Guideline 211

M-Factor (Long-term  
(chronic) aquatic hazard) 1**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :**Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l  
Exposure time: 96 hToxicity to daphnia and  
other aquatic invertebrates EC50 (Daphnia (water flea)): 0,12 mg/l  
Exposure time: 48 hToxicity to algae EC50 (Skeletonema costatum (marine diatom)): 0,0052  
mg/l  
Exposure time: 48 hNOEC (Skeletonema costatum (marine diatom)):  
0,00049 mg/l  
Exposure time: 48 hM-Factor (Short-term  
(acute) aquatic hazard) 100Toxicity to fish (Chronic  
toxicity) NOEC: 0,098 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 210Toxicity to daphnia and  
other aquatic invertebrates  
(Chronic toxicity) NOEC: 0,004 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)M-Factor (Long-term  
(chronic) aquatic hazard) 100**12.2 Persistence and degradability****Product:**

Biodegradability No data available

**Components:****Terbutryn :**

Biodegradability Result: not rapidly degradable

**3-iodo2-propynyl butylcarbamate :**

Biodegradability Result: rapidly degradable

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :**

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Biodegradability Result: not rapidly degradable

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation No data available

### Components:

#### **isoproturon :**

Partition coefficient: n-octanol/water log Pow: 2,5

#### **Terbutryn :**

Partition coefficient: n-octanol/water log Pow: 3,65 - 3,74

#### **3-iodo2-propynyl butylcarbamate :**

Partition coefficient: n-octanol/water log Pow: 2,8

## 12.4 Mobility in soil

### Product:

Mobility 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 Other adverse effects

### Product:

Additional ecological information Do not allow product to enter into ground water, bodies of water or sewage systems. Harmful to aquatic life with long lasting effects.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product The user is responsible for proper coding and marking of any waste.  
Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging Packaging that is not properly emptied must be disposed of as the unused product.

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Waste key for the  
unused product

Empty packaging should be recycled through disposal systems.

08 01 11\* Paint and varnish waste containing organic solvents or other dangerous substances

(\* ) hazardous waste in terms of the European directive 91/689/EEC

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks This information is not available.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks Not applicable

## SECTION 15: REGULATORY INFORMATION

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

VOC  
Directive 2010/75/EU 0,5 %  
7,3 g/l

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**VOC**

Directive 2004/42/EC	1,2 % 18,0 g/l
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EU limit value for this product (cat. A/c) :40 g/l  
This product contains max40 g/lVOC.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	Not applicable
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Other regulations	Comply with the statutory regulations on health and safety at work.
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## 15.2 Chemical safety assessment

This information is not available.

### SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin.

The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

#### Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H331	: Toxic if inhaled.
H351	: Suspected of causing cancer.
H372	: Causes damage to organs through prolonged or



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- H400 : repeated exposure.  
: Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

## Full text of other abbreviations

- Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Carc. : Carcinogenicity  
Eye Dam. : Serious eye damage  
Skin Corr. : Skin corrosion  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

- Other information : It is possible in the interim period that you may find different markings on packaging compared to the

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Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing  
MSDS  
REG\_EU / EN

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