

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Velcorin

Version	Revision Date:	SDS Number:	Date of last issue: 10.01.2023
4.0	11.01.2024	203000000822	Country / Language: UN / 6N (EN)

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

1.1 Product identifier

Trade name	:	Velcorin
Product code	:	00000000000673404
Substance name	:	dimethyl dicarbonate
EC-No.	:	224-859-8

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

Use of the Sub-stance/Mixture	:	Microbial control agent
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1.3 Details of the supplier of the safety data sheet

Company	:	LANXESS Deutschland GmbH Production, Technology, Safety & Environment 51369 Leverkusen, Germany
Responsible Department	:	+49 221 8885 2288 infosds@lanxess.com

1.4 Emergency telephone number

Emergency telephone number	:	For 24/7 multilingual emergency please call CHEMTREC EMEA: +44 20 3885 0382 and mention CCN 1001748.
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 2	H330: Fatal if inhaled.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements :
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.

Precautionary statements :

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal 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.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components

Chemical name	CAS-No.	Classification	Concentration
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	EC-No.		(% w/w)
dimethyl dicarbonate	4525-33-1 224-859-8	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Acute toxicity estimate Acute oral toxicity: 335 mg/kg Acute inhalation toxicity: 0,711 mg/l	99,8

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- If inhaled : Treat respiratory distress and bronchospasm according to conventional protocols.
Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Call a physician if irritation persists.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

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Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting unless directed to do by medical personnel.
Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Harmful if swallowed.
Causes serious eye damage.
Fatal if inhaled.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Inhalation: Observe for delayed pulmonary edema for 24-48 hours.
The use of corticosteroids should be considered in individual cases.
Ingestion: Provide supportive care and observe for corrosion injury to GI tract and treat according to conventional protocols.
Velcorin® (Dimethyl dicarbonate) is hydrolyzed when in contact with water to carbon dioxide and methanol.
Methanol toxicity should be considered in cases of significant ingestions. Consultation with a Toxicologist may be need.
The use of corticosteroids should be considered in individual cases.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not breathe vapours, aerosols.
Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Recommended air exchange rate for adequate ventilation:
in storage areas: 0.4 to 2 changes per hour*
in production areas: 5 to 12 changes per hour*

***Note:**

In most cases the existing ventilation measures already fulfil the recommended air exchange rates (also see DIN EN 16798-3).

To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national

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regulations.

Advice on protection against fire and explosion : Velcorin® may only be used with special dosing pumps.

Normal measures for preventive fire protection.

Hygiene measures : Careful attention to industrial and personal hygiene is essential. Wash hands before breaks and at end of work. Keep working clothes separate. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : 20 - 30 °C

7.3 Specific end use(s)

Specific use(s) : Velcorin® may only be used with special dosing pumps. Keep containers dry and tightly sealed in a well-ventilated place. Avoid exposure to temperatures above 30 °C or below 20 °C for longer periods. Velcorin® may crystallize at temperatures below the recommended storage temperature. If Velcorin solidifies, place container in an environment at 20-30 °C so that it warms up slowly. Do not transfer the Velcorin to another container as it may undergo hydrolysis. Use ethanol or isopropanol to clean equipment. Never use heat or an open flame directly on a Velcorin® container.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Engineering measures

Avoid contact with skin and eyes and the inhalation of vapour.

If there is any chance that exposure has occurred, take immediate action as follows: wash affected skin with soap and water, rinse eyes with water, use breathing apparatus to protect against irritation of mucous membranes/conjunctiva, and move to fresh air.

Educate and train employees in the safe use and handling of this product.

The concentration of Velcorin® in the surrounding air must not be allowed to exceed 0.04 ppm manufacturer recommended short-term (15 minutes) exposure limit.

The odour of Velcorin® is not strong enough to act as warning against inhalation exposure.

In view of the irritating potential, persons with a tendency to asthmatic or other respiratory tract disorders must not be allowed to work with Velcorin® (Dimethyl Dicarbonate).

Recommended air exchange rate for adequate ventilation:

in storage areas: 0.4 to 2 changes per hour*

in production areas: 5 to 12 changes per hour*

*Note:

In most cases the existing ventilation measures already fulfil the recommended air exchange rates (also see DIN EN 16798-3).

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection
Material : Nitrile rubber - NBR
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Recommended:
Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Recommended:
Gas filter, e.g. EN 14387, when Velcorin® is present in the air, e.g. as a result of disturbances and leakages.
At Velcorin® concentrations >0.04 ppm <10 ppm Respiratory protection: gas filter, e.g. EN 14387 against organic vapours and wear personal protective equipment.
At concentrations above (>) 10 ppm and at unventilated workplaces, breathing apparatus should be worn.

Filter type : A2 Filter

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Liquid
Physical state	:	liquid
Colour	:	colourless
Odour	:	slightly pungent
Odour Threshold	:	No data available
Melting point/range	:	17 °C
Boiling point/boiling range	:	Decomposition
Upper explosion limit / Upper flammability limit	:	Upper explosion limit 29,9 %(V)
Lower explosion limit / Lower flammability limit	:	Lower explosion limit 3 %(V)
Flash point	:	96,5 °C Method: DIN EN ISO 2719/A, closed cup
Ignition temperature	:	465 °C
Decomposition temperature	:	No data available
pH	:	Not applicable
Viscosity		
Viscosity, dynamic	:	2,1 mPa,s (20 °C)
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	35 g/l (25 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	0,7 hPa (20 °C)

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Relative density	:	No data available
Density	:	1,25 g/cm ³ (20 °C)
Relative vapour density	:	No data available

9.2 Other information

Explosives	:	No data available
Oxidizing properties	:	No data available
Flammable solids	:	
Burning number	:	No data available
Self-ignition	:	No data available
Evaporation rate	:	No data available
Miscibility with water	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
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10.4 Conditions to avoid

Conditions to avoid	:	Do not expose to temperatures above: 70 °C Carbon monoxide, carbon dioxide and other toxic gases are evolved if there is a fire or thermal decomposition.
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10.5 Incompatible materials

Materials to avoid	:	No specific data.
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10.6 Hazardous decomposition products

Hazardous decomposition products	:	Methanol Carbon oxides
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.
Fatal if inhaled.

Product:

Acute oral toxicity : Acute toxicity estimate: 335,67 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 0,7124 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

dimethyl dicarbonate:

Acute oral toxicity : LD50 (Rat, male): 497 mg/kg
LD50 (Rat, female): 335 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,711 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 1.250 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Expert judgement

Skin corrosion/irritation

Causes severe burns.

Components:

dimethyl dicarbonate:

Species : Rabbit
Result : Causes burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

dimethyl dicarbonate:

Species : Rabbit
Result : Risk of serious damage to eyes.

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

dimethyl dicarbonate:

Species : Dog
NOAEL : 4.000 mg/kg
Application Route : Oral
Exposure time : 12 Months
Remarks : Chronic toxicity
In the chronic investigation the dogs got various liquids (i.e. fruit juices and/or wine), serving as the only source of liquid for the test animals.

Species : Rat
NOAEL : 0,23 mg/m³
Application Route : Inhalation
Test atmosphere : vapour
Exposure time : 90 d
Number of exposures : 5 days/week
Dose : 0,23 mg/m³
Remarks : Subchronic toxicity
In the sub chronic inhalation study on rats irritation of the upper respiratory tract has been observed after inhalation of large quantities of Velcorin®.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

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Remarks : Product causes severe irritation to skin, eyes and mucous membranes. Even short-term inhalation exposure can result in irritation of the nose, throat and respiratory tract. Predisposed persons may show asthmatic reactions.

SECTION 12: Ecological information

12.1 Toxicity

Components:

dimethyl dicarbonate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 50 - 100 mg/l
Exposure time: 48 h

12.2 Persistence and degradability

Components:

dimethyl dicarbonate:

Biodegradability : Result: Readily biodegradable.
Remarks: Complete hydrolysis to methanol and CO₂ through water within a few hours.

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 Other adverse effects

Product:

Endocrine disrupting potential : 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.

Additional ecological information : No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Waste from residues
The generation of waste should be avoided or minimised wherever possible.
The product should not be allowed to enter drains, water courses or the soil.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls
Move the empty container to a well ventilated area (Recommendation: outdoor location). Open the container, place the screw cap in water and dispose it of properly after hydrolysis is complete. Fill bottle carefully with water to the brim so as to avoid overflow. Under no circumstances the container must be closed again, as possible formation of carbon dioxide can lead to pressure build-up and bursting of the container. After completion of the hydrolyzation, the water containing the hydrolyzed products can be added to the plant's waste water. The empty container may then be disposed of like any other aluminum container.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
-

SECTION 14: Transport information

14.1 UN number

- ADN : UN 2927
ADR : UN 2927
RID : UN 2927
IMDG : UN 2927
IATA : UN 2927

14.2 UN proper shipping name

- ADN : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
(DIMETHYL DICARBONATE)
ADR : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
-

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(DIMETHYL DICARBONATE)

RID : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
(DIMETHYL DICARBONATE)

IMDG : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.
(DIMETHYL DICARBONATE)

IATA : Toxic liquid, corrosive, organic, n.o.s.
(DIMETHYL DICARBONATE)

14.3 Transport hazard class(es)

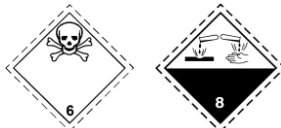
ADN : 6.1
ADR : 6.1
RID : 6.1
IMDG : 6.1
IATA : 6.1

14.4 Packing group

ADN
Packing group : II
Classification Code : TC1
Hazard Identification Number : 68
Labels : 6.1 8

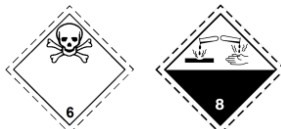


ADR
Packing group : II
Classification Code : TC1
Hazard Identification Number : 68
Labels : 6.1 8



Tunnel restriction code : (D/E)

RID
Packing group : II
Classification Code : TC1
Hazard Identification Number : 68
Labels : 6.1 8



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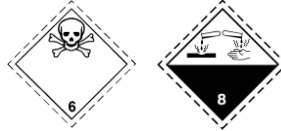
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IMDG

Packing group : II
Labels : 6.1 8



EmS Code : F-A, S-B

IATA (Cargo)

Packing instruction (cargo aircraft) : 660 : 30,00 L
Packing group : II
Labels : 6.1 8



IATA (Passenger)

Packing instruction (passenger aircraft) : 653 : 1,00 L
Packing group : II
Labels : 6.1 8



14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Hazard and Handling Notes. : Toxic.
Slightly corrosive.
Combustible.
Keep separated from foodstuffs.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) : Not applicable
Schedules of Toxic Chemicals and Precursors

Other regulations:

Velcorin® product information

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H330 : Fatal if inhaled.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage
Skin Corr. : Skin corrosion

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; 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

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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; TECL - 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 data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.