

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MERUBA 100 SC

Version	Revision Date:	SDS Number:	Date of last issue: 02.11.2020
1.1	15.11.2020	000000000000105627	Date of first issue: 02.11.2020
		Region: GB	Print Date: 19.05.2021
		Language: EN	

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

#### 1.1 Product identifier

Trade name : MERUBA 100 SC  
Product code : 000000000000105627

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

Use of the Sub-stance/Mixture : Herbicide  
Uses advised against : No data available.

#### 1.3 Details of the supplier of the safety data sheet

Company : HELM AG  
Nordkanalstrasse 28  
20097 Hamburg  
Telephone : +49/40/23750  
Telefax : +49/40/23751845  
E-mail address of person responsible for the SDS : SDB@HELMAG.COM

#### 1.4 Emergency telephone number

For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)  
In case of transport incidents and other emergencies:  
+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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.
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 :     
GHS05      GHS07      GHS09

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements : **Prevention:**  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection.

**Response:**

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P330 Rinse mouth.  
P391 Collect spillage.

**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

### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
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	EC-No. Index-No. Registration number		(% w/w)
Alcohols, C9-11-iso-, C10-rich, ethoxylated	78330-20-8	Acute Tox.4; H302 Eye Dam. 1; H318	>= 20 - < 30
citric acid	77-92-9 201-069-1	Eye Irrit.2; H319	>= 10 - < 20
Mesotrione	104206-82-8 609-064-00-X	Aquatic Acute1; H400 Aquatic Chronic 1; H410  M-Factor (Chronic aquatic toxicity): 1	>= 2.5 - < 10
octan-1-ol	111-87-5 203-917-6	Eye Irrit.2; H319 Aquatic Chronic 3; H412	>= 2.5 - < 10
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 : Take off all contaminated clothing immediately.  
Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.  
When symptoms persist or in all cases of doubt seek medical advice.  
Symptoms of poisoning may appear several hours later.
- If inhaled : If inhaled, remove to fresh air.
- In case of skin contact : Call a physician immediately.  
  
In case of skin contact  
Wash off with plenty of water.
- In case of eye contact : Call a physician immediately.  
  
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Protect unharmed eye.
- If swallowed : Drink plenty of water.  
  
Rinse mouth with water.

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Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.

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

Symptoms : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Water spray

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : In the event of fire, the following can be released:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Sulphur oxides  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Do not allow uncontrolled discharge of product into the environment.

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Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

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

Methods for 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).

### 6.4 Reference to other sections

Information regarding safe handling, see chapter 7. For personal protection see section 8. For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Handle with care. Avoid inhalation, ingestion and contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition.

Hygiene measures : Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking.

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

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Advice on common storage : Substances to be avoided, pls. See chapter 10.

### 7.3 Specific end use(s)

Specific use(s) : No data available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

##### Engineering measures

Effective exhaust ventilation system

Maintain air concentrations below occupational exposure standards.

##### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Safety glasses with side-shields  
Equipment should conform to EN 166

Hand protection

Remarks : Protective gloves complying with EN 374.  
Gloves must be inspected prior to use.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Material : nitrile  
Break through time : > 480 min  
Glove thickness : > 0.3 mm

Material : Rubber  
Break through time : > 240 min  
Glove thickness : > 0.5 mm

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Preventive skin protection

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Form	:	liquid
Colour	:	beige
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	ca. 2.8 Method: CIPAC MT 75.3
	:	No data available
	:	No data available
Flash point	:	> 400 °C Method: OPPTS 830.6315
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	ca. 1.1 g/cm <sup>3</sup> (20 °C) Method: OECD Test Guideline 109
Solubility(ies)	:	
Water solubility	:	No data available
Solubility in other solvents	:	No data available

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Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Particle size	:	Not applicable

### 9.2 Other information

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

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

None, when used as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral >



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2000 mg/kg).

### Components:

#### **Alcohols, C9-11-iso-, C10-rich, ethoxylated, CAS: 78330-20-8**

Acute oral toxicity : LD50 (Rat): 518.13 mg/kg  
Remarks: Source: supplier

#### **mesotrione(ISO), CAS: 104206-82-8**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat): > 5.05 mg/l  
Exposure time: 4 h  
Test atmosphere: Dust  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

#### Product:

Species : Human Skin Model  
Method : OECD Test Guideline 439  
Result : No skin irritation

### Components:

#### **mesotrione(ISO), CAS: 104206-82-8**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Serious eye damage/eye irritation**

#### Product:

Species : in vitro assay  
Method : BCOP  
Result : Corrosive

### Components:

#### **mesotrione(ISO), CAS: 104206-82-8**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No skin irritation

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### Respiratory or skin sensitisation

#### Components:

##### mesotrione(ISO), CAS: 104206-82-8

Exposure routes	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	non-sensitizing

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro	:	Test Type: Bacterial Reverse Mutation Test Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Remarks: Based on available data, the classification criteria are not met.
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### Further information

#### Product:

Remarks	:	Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.
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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 34.8 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 91.4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Navicula pelliculosa (Freshwater diatom)): 23.3 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  ErC50 (Lemna minor (common duckweed)): 0.218 mg/l Exposure time: 7 d Method: OECD Test Guideline 221  NOEC (Lemna minor (common duckweed)): 0.0191 mg/l Exposure time: 7 d Method: OECD Test Guideline 221

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### Components:

#### **mesotrione(ISO), CAS: 104206-82-8**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l  
Exposure time: 96 h  
Remarks: Source: Toxnet

M-Factor (Chronic aquatic toxicity) : 1

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

#### Components:

#### **mesotrione(ISO), CAS: 104206-82-8**

Bioaccumulation : Bioconcentration factor (BCF): 0.4  
Method: QSAR  
Remarks: Source: Toxnet

Partition coefficient: n-octanol/water : log Pow: 1.49  
Method: Calculated value  
Remarks: Source: Toxnet

### **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:

Environmental fate and pathways : Do not discharge into the drains or waters and do not store on public depositories.

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : In accordance with local and national regulations.

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Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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

### SECTION 14: Transport information

#### 14.1 UN number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

#### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mesotrione)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mesotrione)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mesotrione)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mesotrione)
IATA	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mesotrione)

#### 14.3 Transport hazard class(es)

ADN	: 9
ADR	: 9
RID	: 9
IMDG	: 9
IATA	: 9

#### 14.4 Packing group

ADN Packing group	: III
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Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### ADR

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not listed

REACH - List of substances subject to authorisation (Annex XIV) : Not listed

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not listed

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not listed

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

#### Other regulations:

Adhere to the national sanitary and occupational safety regulations when using this product.

#### The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AICS : Not in compliance with the inventory

DSL : This product contains one or several components that are not on the Canadian DSL nor NDSL.

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

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### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the Safety Data Sheet

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.  
EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU  
National Threshold Limit Values of the corresponding countries as amended in each case.  
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.  
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Full text of H-Statements

H302	: Harmful if swallowed.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful 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
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation

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

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es; (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

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

GB / EN