

# neodisher IS

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 01.03.2023

Print date: 31.05.23

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

### 1.1. Product identifier

neodisher IS

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

#### Identified Uses

PC35                      Washing and cleaning products (including solvent based products)

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

#### Address:

Chemische Fabrik Dr. Weigert GmbH & Co. KG  
Mühlenhagen 85  
D-20539 Hamburg  
Telephone no.            +49 40 789 60 0  
Fax no.                    +49 40 789 60 120  
www.drweigert.com

#### E-mail address of person responsible for this SDS:

sida@drweigert.de

### 1.4. Emergency telephone number

Emergency telephone number: 112

## SECTION 2: Hazards identification \*\*\*

### 2.1. Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1	H290	
Acute Tox. 3	H311	Route of exposure: dermal
Acute Tox. 4	H332	Route of exposure: inhalative
Skin Corr. 1	H314	
Eye Dam. 1	H318	
Acute Tox. 3	H301	Route of exposure: oral

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms \*\*\*



#### Signal word

Danger

#### Hazard statements \*\*\*

H290                      May be corrosive to metals.

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H301+H311 Toxic if swallowed or in contact with skin.  
 H332 Harmful if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 EUH071 Corrosive to the respiratory tract.

## Precautionary statements \*\*\*

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 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.  
 Dispose only when container is empty and closed. For disposal of product residues, refer to safety data sheet.

## Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains \*\*\* cumenesulphonic acid; hydrogen fluoride; ammonium fluoride; ammonium bifluoride

## 2.3. Other hazards

No special hazards have to be mentioned.  
 The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## SECTION 3: Composition/information on ingredients \*\*\*

### 3.2. Mixtures

#### Hazardous ingredients \*\*\*

##### citric acid

CAS No. 77-92-9  
 EINECS no. 201-069-1  
 Registration no. 01-2119457026-42  
 Concentration  $\geq 10$  < 25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Eye Irrit. 2 H319  
 STOT SE 3 H335

##### ammonium bifluoride

CAS No. 1341-49-7  
 EINECS no. 215-676-4  
 Registration no. 01-2119489180-38  
 Concentration  $\geq 10$  < 25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 3 H301  
 Skin Corr. 1B H314

#### Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319  $\geq 0,1 < 1$  %  
 Skin Corr. 1B H314  $\geq 1$  %  
 Skin Irrit. 2 H315  $\geq 0,1 < 1$  %

##### cumenesulphonic acid

CAS No. 16066-35-6  
 EINECS no. 240-210-1

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Registration no. 01-2119538809-24  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Skin Corr. 1C H314  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)  
Skin Irrit. 2 H315  $\geq 1 \leq 20$  %  
Eye Dam. 1 H318  $\geq 1 \leq 20$  %

## fatty alcohols, ethoxylated, propoxylated

CAS No. 68439-51-0  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Aquatic Chronic 3 H412

## hydrogen fluoride

CAS No. 7664-39-3  
EINECS no. 231-634-8  
Concentration  $\geq 1$  < 7 %  
Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 1 H310  
Acute Tox. 2 H300  
Acute Tox. 2 H330  
Skin Corr. 1A H314

## ammonium fluoride

CAS No. 12125-01-8  
EINECS no. 235-185-9  
Concentration  $\geq 1$  < 10 %  
Classification (Regulation (EC) No. 1272/2008)  
Acute Tox. 3 H301  
Acute Tox. 3 H311  
Acute Tox. 3 H331

## Other information

Complete text of hazard statements in chapter 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

#### After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

#### After skin contact

In the event of contact with the skin immediately apply Ca gluconate solution or rub in Ca gluconate gel.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

#### After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water.

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Let plenty of water be drunk in small gulps. Do not induce vomiting.

## **Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

### **Hints for the physician / treatment**

Keep under medical supervision for at least 48 hours.

### **Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Dry powder, Foam, Water spray jet

#### **Non suitable extinguishing media**

Full water jet

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

Hydrogen fluoride (HF); Ammonia (NH<sub>3</sub>)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

#### **Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

## **SECTION 6: Accidental release measures**

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

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

### **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**

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## Advice on safe handling

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

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

### Recommended storage temperature

Value > -15 < 30 °C

### Requirements for storage rooms and vessels

Keep only in original packaging. Do not use glass containers. Storage rooms must be properly ventilated. Provide acid-resistant floor.

### Hints on storage assembly

Do not store together with foodstuffs.

### Storage classes

Storage class according to TRGS 510	6.1D	Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
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### Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

## 7.3. Specific end use(s)

no data

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### hydrogen fluoride

List	EH40			
Type	WEL			
Value	1.5	mg/m <sup>3</sup>	1.8	ppm(V)
Short term exposure limit	2.5	mg/m <sup>3</sup>	3	ppm(V)

##### hydrogen fluoride

List	IOELV			
Type	IOELV			
Value	1,5	mg/m <sup>3</sup>	1,8	ppm(V)
Short term exposure limit	2,5	mg/m <sup>3</sup>	3	ppm(V)

#### Other information

There are not known any further control parameters.

### 8.2. Exposure controls

#### General protective and hygiene measures

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

#### Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

#### Hand protection

Chemical resistant gloves	
Use	Permanent hand contact

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Appropriate Material	neoprene		
Material thickness	>=	0,65	mm
Breakthrough time	>	480	
Appropriate Material	nitrile		
Material thickness	>=	0,4	mm
Breakthrough time	>	480	min
Appropriate Material	butyl		
Material thickness	>=	0,7	mm
Breakthrough time	>	480	min
Use	Short-term hand contact		
Appropriate Material	nitrile		
Material thickness	>=	0,11	mm
Hand protection must comply with EN ISO 374.			

## Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

## Body protection

Clothing as usual in the chemical industry. Protective shoes

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	liquid
<b>Colour</b>	light brown
<b>Odour</b>	characteristic
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Boiling point or initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flammability</b>	
evaluation	Not applicable
<b>Upper and lower explosive limits</b>	
Remarks	Not applicable
<b>Flash point</b>	
Remarks	Not applicable
<b>Ignition temperature</b>	
Remarks	Not applicable
<b>Decomposition temperature</b>	
Remarks	not determined
<b>pH value</b>	
Value	appr. 1,5
Temperature	20 °C
Value	2
Concentration/H <sub>2</sub> O	5 %
Temperature	20 °C
Value	3
Concentration/H <sub>2</sub> O	2 %
Temperature	20 °C

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## Viscosity

Remarks not determined

## Solubility(ies)

Remarks not determined

## Partition coefficient n-octanol/water (log value)

Remarks not determined

## Vapour pressure

Remarks not determined

## Density and/or relative density

Value 1,19 g/cm<sup>3</sup>  
Temperature 20 °C

## Relative vapour density

Remarks not determined

## 9.2. Other information

### Odour threshold

Remarks not determined

### Evaporation rate (ether = 1) :

Remarks not determined

### Solubility in water

Remarks miscible in all proportions

### Explosive properties

evaluation no

### Oxidising properties

evaluation None known

### Other information

None known

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2. Chemical stability

No hazardous reactions known.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

### 10.4. Conditions to avoid

No hazardous reactions known.

### 10.5. Incompatible materials

Reactions with alkalis. Reactions with various metals.

### 10.6. Hazardous decomposition products

Hazardous determin decomposition products: Hydrogen fluoride

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

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ATE 50 to 300 mg/kg  
 Method calculated value (Regulation (EC) No. 1272/2008)

## Acute oral toxicity (Components)

### fatty alcohols, ethoxylated, propoxylated

Species rat  
 LD50 > 2000 mg/kg  
 Method EEC 84/449, B.1

### citric acid

Species rat  
 LD50 11700 mg/kg

### citric acid

Species mouse  
 LD50 5040 mg/kg

### cumenesulphonic acid

Species rat  
 LD50 = 1410 mg/kg  
 Source ECHA

### ammonium fluoride

Species rat (male)  
 LD50 148,5 mg/g  
 Source ECHA

### ammonium bifluoride

Species rat  
 LD50 130 mg/kg  
 Source ECHA

## Acute dermal toxicity

ATE 200 to 1000 mg/kg  
 Method calculated value (Regulation (EC) No. 1272/2008)

## Acute dermal toxicity (Components)

### fatty alcohols, ethoxylated, propoxylated

Species rat  
 LD50 > 5000 mg/kg

## Acute inhalational toxicity

ATE 27 mg/l  
 Administration/Form Vapors  
 Method calculated value (Regulation (EC) No. 1272/2008)  
 ATE 2,5 mg/l  
 Administration/Form Dust/Mist  
 Method calculated value (Regulation (EC) No. 1272/2008)

## Acute inhalative toxicity (Components)

### hydrogen fluoride

Species rat  
 LC50 1300 ppm(V)  
 Duration of exposure 30 min  
 Source ECHA

### ammonium fluoride

Species Rats (male/female)  
 1000 mg/m<sup>3</sup>  
 Source ECHA

## Skin corrosion/irritation

evaluation corrosive



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## Skin corrosion/irritation (Components)

### cumenesulphonic acid

Species	rabbit
Duration of exposure	>= 4 h
Observation Period	7 Days
evaluation	corrosive
Method	OECD 404
Source	ECHA

### hydrogen fluoride

Species	rabbit
Duration of exposure	4 h
Observation Period	14 Days
evaluation	corrosive
Method	OECD 404
Source	ECHA

## Serious eye damage/irritation

evaluation corrosive

## Serious eye damage/irritation (Components)

### cumenesulphonic acid

Species	rabbit eye
Duration of exposure	30 s
Observation Period	14 Days
evaluation	corrosive
Source	ECHA

## Sensitization

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

## Subacute, subchronic, chronic toxicity

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

## Mutagenicity

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

## Reproductive toxicity

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

## Carcinogenicity

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

## Specific Target Organ Toxicity (STOT)

### Single exposure

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

### Repeated exposure

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

## Aspiration hazard

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

## 11.2 Information on other hazards

### Experience in practice

Inhalation may lead to irritation of the respiratory tract.

### Other information

There is no data available on the product apart from the information given in this subsection.

## SECTION 12: Ecological information

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## 12.1. Toxicity

### General information

not determined

### Fish toxicity (Components)

#### fatty alcohols, ethoxylated, propoxylated

Species	guppy ( <i>Poecilia reticulata</i> )			
LC50	1	to	10	mg/l
Duration of exposure	96	h		
Method	OECD 203			

#### citric acid

Species	golden orfe ( <i>Leuciscus idus</i> )			
LC50	440	to	706	mg/l
Duration of exposure	96	h		

#### cumenesulphonic acid

Species	golden orfe ( <i>Leuciscus idus</i> )			
LC50	=	325		mg/l
Duration of exposure	96	h		
Method	OECD 203			
Source	ECHA			

#### ammonium bifluoride

Species	Salmo gairdneri			
LC50	422			mg/l
Duration of exposure	96	h		

### Daphnia toxicity (Components)

#### fatty alcohols, ethoxylated, propoxylated

Species	Daphnia magna			
EC50	1	to	10	mg/l
Duration of exposure	48	h		
Method	OECD 202			

#### citric acid

Species	Daphnia magna			
EC50	120			mg/l
Duration of exposure	72	h		

#### cumenesulphonic acid

Species	Daphnia magna			
EC50	=	100		mg/l
Duration of exposure	48	h		
Method	OECD 202			
Source	ECHA			

#### ammonium bifluoride

Species	Daphnia magna			
EC50	10	to	49	mg/l
Source	ECHA			

### Algae toxicity (Components)

#### fatty alcohols, ethoxylated, propoxylated

Species	Scenedesmus subspicatus			
EC50	1	to	10	mg/l
Duration of exposure	72	h		
Method	OECD 201			

#### cumenesulphonic acid

Species	Selenastrum capricornutum			
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EC50	73		mg/l
Duration of exposure	72	h	
Method	OECD 201		
Source	ECHA		

## ammonium bifluoride

Species	Skeletonema costatum		
EC50	= 81		mg/l
Source	ECHA		

## Bacteria toxicity (Components)

### fatty alcohols, ethoxylated, propoxylated

Species	Pseudomonas putida		
EC0	> 100		mg/l
Method	OECD 209		

### cumenesulphonic acid

Species	activated sludge		
EC10	580		mg/l
Duration of exposure	3	h	
Source	ECHA		

## 12.2. Persistence and degradability

### General information

not determined

### Biodegradability (Components)

#### fatty alcohols, ethoxylated, propoxylated

evaluation Readily biodegradable (according to OECD criteria)

#### cumenesulphonic acid

evaluation Readily biodegradable (according to OECD criteria)  
Source ECHA

### Ready degradability (Components)

citric acid

## 12.3. Bioaccumulative potential

### General information

not determined

### Partition coefficient n-octanol/water (log value)

Remarks not determined

## 12.4. Mobility in soil

### General information

not determined

## 12.5. Results of PBT and vPvB assessment

### Results of PBT and vPvB assessment

The product contains no PBT or vPvB substances.

## 12.7. Other adverse effects

### General information

not determined

### General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid

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down in Regulation (EC) No.648/2004 on detergents. Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code 18 01 06\* chemicals consisting of or containing dangerous substances

EWC waste code 20 01 29\* detergents containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

EWC waste code 15 01 02 plastic packaging

Completely emptied packagings can be given for recycling.

EWC waste code 15 01 10\* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information




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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
IMDG-Code segregation group		1 Acids	
14.1. UN number or ID number	2817	2817	2817
14.2. UN proper shipping name	AMMONIUM HYDROGENDIFLUORIDE SOLUTION	AMMONIUM HYDROGENDIFLUORIDE SOLUTION	AMMONIUM HYDROGENDIFLUORIDE SOLUTION
14.3. Transport hazard class(es)	8	8	8
Subsidiary risk	6.1	6.1	6.1
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards		no	
IMDG-Code segregation group		2 Ammonium compounds	

## Information for all modes of transport

### 14.6. Special precautions for user

See Sections 6 to 8

## Other information

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### Major-accident categories acc. 2012/18/EU

Category	H2	ACUTE TOXIC	50	tonne	200	tonne
				s		s

#### Ingredients (Regulation (EC) No 648/2004)

##### less than 5 %:

non-ionic surfactants

##### Further ingredients

perfumes, amyl cinnamal

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## VOC

VOC (EU) 0 %

## 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1	H290
Acute Tox. 3	H311
Acute Tox. 4	H332
Skin Corr. 1	H314
Eye Dam. 1	H318
Acute Tox. 3	H301

### Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 2/3

Acute Tox. 1	Acute toxicity, Category 1
Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
IMDG: International Maritime Code for Dangerous Goods  
ICAO: International Civil Aviation Organization  
IATA: International Air Transport Association  
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)  
IBC: Intermediate Bulk Container

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CAS: Chemical Abstracts Service  
TSCA: Toxic Substances Control Act (USA)  
VOC: Volatile Organic Compound  
ISO: International Organization for Standardization  
OEL: Occupational exposure limit  
LD: Lethal dose  
LC: Lethal concentration  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: Very persistent and very bioaccumulative  
SVHC: Substances of very high concern  
IUCLID: International Uniform Chemical Information Database  
OECD: Organisation for Economic Co-operation and Development  
IMO: International Maritime Organization  
GHS: Globally Harmonized System of classification and Labelling of Chemicals  
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals  
UN: United Nations

## Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a  
guarantee for any specific product properties and shall not establish a legally valid relationship.