

Safety data sheet

Page: 1/14

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

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

1.1. Product identifier

HB 002 5L HYDROBASE ONYX

UFI: P6VU-F4UM-900F-DF4P

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

Relevant identified uses: Basecoat product

1.3. Details of the supplier of the safety data sheet

Company:

BASF France SAS
49, avenue Georges Pompidou
92593 Levallois-Perret Cedex, FRANCE

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-north@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

Skin Sens. 1A

H317 May cause an allergic skin reaction.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H317 May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing and eye protection or face protection.

Precautionary Statements (Response):

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: 2-methylisothiazolinone, 1,2-Benzisothiazol-3(2H)-on

2.3. Other hazards

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Water, polyurethane

Hazardous ingredients (GHS)

2-methylisothiazolinone

Content (W/W): > 0 % - < 0.1 %

CAS Number: 2682-20-4

EC-Number: 220-239-6

Acute Tox. 2 (Inhalation - dust)

Acute Tox. 2 (Inhalation - vapour)

Acute Tox. 3 (oral)

Acute Tox. 3 (dermal)

Eye Dam./Irrit. 1

Aquatic Acute 1

Aquatic Chronic 1

Skin Corr./Irrit. 1B

Skin Sens. 1A

M-factor acute: 10

H314, H311, H330, H301, H317, H410

EUH071

Specific concentration limit:

Skin Sens. 1A: >= 0.001500 %

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

If symptoms persist, seek medical advice. Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution.

On ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

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

Symptoms: allergic symptoms, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

Advice: Hazardous decomposition products formed under fire conditions.

5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Stove-lacquer RDL 50, Stove-lacquer R 78433, Stove-lacquer 79/14/3 (Müller/CH), Stove-lacquer EHD0022, Stove-lacquer Vitalure 745, Stove-lacquer NOVOCAN S-G 500, Stove-lacquer C222A/C221A, High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethylenetherephtalate (PET), Polypropylene (PP), Stainless steel 1.4301 (V2)
Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

Storage stability:

Storage temperature: 5.00 - 40.00 °C

7.3. Specific end use(s)

Please refer to the technical leaflet for further information.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No occupational exposure limits known.

Biological limit values (BLV)

No data available.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. half-mask with A1P2 class combination filter When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. Use A1P2 breathing-protection half mask in case of contact with aerosols.

Hand protection:

Further information on penetration time is available from the manufacturer of the glove.

Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

nitrile gloves - material thickness: 0,7 mm

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166), Required when there is a risk of eye contact.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

Body protection:
chemical-resistant disposable coveralls

General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	colourless	
Odour:	of glycol	
pH value:	7.0 - 9.0	
Melting point:	not determined	
onset of boiling:	not determined	
Flash point:	not applicable	
Flammability:	not applicable	
Lower explosion limit:	not applicable	
Ignition temperature:	> 200.00 °C	
Vapour pressure:	23.61 hPa	(calculated)
	(20 °C)	
	130.60 hPa	(calculated)
	(50 °C)	
Density:	1.011 g/cm ³	
	(20 °C)	
Viscosity, kinematic:	6.6 mm ² /s	
	(20 °C)	
	(40 °C)	
	not determined	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

9.2. Other information

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

Burning rate:	The material doesn't meet the criteria specified in paragraph 33.2.4.4 of UN manual of tests and criteria.	(UN Test N.1 (ready combustible solids))
Self heating ability:	It is not a substance capable of spontaneous heating.	
Miscibility with water:		
Flow time:	miscible 30 s	(DIN EN ISO 2431; 3 mm)

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4. Conditions to avoid

Avoid direct sunlight. Avoid freezing.

10.5. Incompatible materials

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

10.6. Hazardous decomposition products

When exposed to high temperatures hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

The mixture has been assessed following regulation (EC) No 1272/2008. See sections 2 and 3 for details.

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

Irritation

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

Assessment of irritating effects:

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

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

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

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

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

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

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

Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

11.2. Information on other hazards

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

No data available concerning biodegradation and elimination.

12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Endocrine disrupting properties

12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Waste key:

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

VOC content: 0.1 % calculated

VOC content: 13.0 g/l

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Listed in above regulation: no

Details relating to the VOC Directive 2004/42/EC:

Subcategory as indicated in Annex IIB:

d

Limit value for maximum VOC content as specified in Annex IIB:

420 g/l

VOC content of the ready-for-use product according to ISO 11890-2:

419 g/l

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

SECTION 16: Other Information

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 08.06.2022

Version: 1.9

Date previous version: 05.05.2022

Previous version: 1.8

Date / First version: 26.10.2020

Product: **HB 002 5L HYDROBASE ONYX**

(ID no. 53172715/SDS_GEN_GB/EN)

Date of print 09.06.2022

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Sens.	Skin sensitization
Acute Tox.	Acute toxicity
Eye Dam./Irrit.	Serious eye damage/eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Corr./Irrit.	Skin corrosion/irritation
H317	May cause an allergic skin reaction.
H314	Causes severe skin burns and eye damage.
H311	Toxic in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.