

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 02.03.2022

Version: 1.0

Date previous version: not applicable

Previous version: none

Date / First version: 02.03.2022

Product: **Basonat® HW 2170 MPA**

(ID no. 30796963/SDS_GEN_DE/EN)

Date of print 28.09.2022

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

1.1. Product identifier

Basonat® HW 2170 MPA

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

Relevant identified uses: Coating raw material for industrial applications

Uses advised against: All consumer uses are strongly advised against., The hazardous properties of the substance require safety measures which can, in principle, not be sufficiently ensured in the home worker sector.

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Global Business Unit Resins and Additives

Telephone: +49 621 60-72509

E-mail address: ed-psr@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

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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.

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (Inhalation - mist)	H332 Harmful if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H336 May cause drowsiness or dizziness.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.
Flam. Liq. 3	H226 Flammable liquid and vapour.

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:

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe mist or vapour.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
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Precautionary Statements (Storage):

P233	Keep container tightly closed.
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Precautionary Statements (Disposal):

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

Labeling of special preparations (GHS):

EUH204: Contains isocyanates. May produce an allergic reaction. EUH208: May produce an allergic reaction. Contains: hexamethylene-di-isocyanate

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: HDI oligomers, isocyanurate, Poly(oxy-1,2-ethanediyl), α -methyl- ω -hydroxy-, polymer with 1,6-diisocyanatohexane, block, 2-methoxy-1-methylethyl acetate

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

The product does not contain a substance that is identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 or is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Solution in organic solvents of: polyfunctional polyisocyanate, aliphatic

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

2-methoxy-1-methylethyl acetate

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Content (W/W): >= 25 % - < 50 %	Flam. Liq. 3
CAS Number: 108-65-6	STOT SE 3 (drowsiness and dizziness)
EC-Number: 203-603-9	H226, H336
REACH registration number: 01-2119475791-29	
INDEX-Number: 607-195-00-7	

HDI oligomers, isocyanurate

Content (W/W): >= 25 % - < 50 %	Acute Tox. 4 (Inhalation - mist)
CAS Number: 28182-81-2	Skin Sens. 1
REACH registration number: 01-2119485796-17	STOT SE 3 (irr. to respiratory syst.)
	H332, H317, H335

Poly(oxy-1,2-ethanediyl), α -methyl- ω -hydroxy-, polymer with 1,6-diisocyanatohexane, block

Content (W/W): >= 25 % - < 50 %	Acute Tox. 4 (Inhalation - mist)
CAS Number: 143472-08-6	Skin Sens. 1
	STOT SE 3 (irr. to respiratory syst.)
	Aquatic Chronic 3
	H332, H317, H335, H412

included are:

hexamethylene-di-isocyanate

Content (W/W): < 0,1 %	Acute Tox. 4 (oral)
CAS Number: 822-06-0	Acute Tox. 1 (Inhalation - mist)
EC-Number: 212-485-8	Skin Corr./Irrit. 2
REACH registration number: 01-2119457571-37	Eye Dam./Irrit. 2
INDEX-Number: 615-011-00-1	Resp. Sens. 1
	Skin Sens. 1
	STOT SE 3 (irr. to respiratory syst.)
	H319, H315, H330, H302, H334, H317, H335

Specific concentration limit:

Skin Sens. 1: >= 0,5 %

Resp. Sens. 1: >= 0,5 %

For the above listed impurities, constituents or additives according to art. 3(1) of regulation (EC) No 1907/2006 (REACH) no exposure scenario is necessary.

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.

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SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

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

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., (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
water jet

5.2. Special hazards arising from the substance or mixture

Endangering substances: harmful vapours

Advice: Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

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Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

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

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage class according to TRGS 510 (originally VCI, Germany): (3) Flammable liquids

Protect from temperatures above: 50 °C

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to proof the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalative exposure the European Standards EN 482, 689 and 14042 are to be considered. In addition the TRGS 402 has to be observed in Germany.

108-65-6: 2-methoxy-1-methylethyl acetate

STEL value 550 mg/m³ ; 100 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

TWA value 275 mg/m³ ; 50 ppm (OEL (EU))

indicative

OEL 270 mg/m³ ; 50 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 1

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

Short Term Exposure Classification: (TRGS 900 (DE))

Category I: Substances for which the localized effect has an assigned exposure limit or for substances with a sensitizing effect in respiratory passages

Components with PNEC

28182-81-2: HDI oligomers, isocyanurate

freshwater: 0,127 mg/l

marine water: 0,0127 mg/l

intermittent release: 1,27 mg/l

sediment (freshwater): 266700 mg/kg

marine water: 26670 mg/kg

soil: 53182 mg/kg

STP: 38,28 mg/l

108-65-6: 2-methoxy-1-methylethyl acetate

freshwater: 0,635 mg/l

marine water: 0,0635 mg/l

intermittent release: 6,35 mg/l

sediment (freshwater): 3,29 mg/kg

sediment (marine water): 0,329 mg/kg

soil: 0,29 mg/kg

STP: 100 mg/l

DNEL

Data refer to the lead substance

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Components with DNEL

28182-81-2: HDI oligomers, isocyanurate

worker: Short-term exposure - local effects, Inhalation: 1 mg/m³

worker: Long-term exposure - local effects, Inhalation: 0,5 mg/m³

108-65-6: 2-methoxy-1-methylethyl acetate

worker: Long-term exposure- systemic effects, Inhalation: 275 mg/m³

worker: Long-term exposure- systemic effects, dermal: 796 mg/kg

consumer: Long-term exposure- systemic effects, oral: 36 mg/kg

consumer: Long-term exposure - systemic and local effects, Inhalation: 33 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 320 mg/kg

worker: Short-term exposure - local effects, Inhalation: 550 mg/m³

consumer: Short-term exposure - systemic effects, oral: 500 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	colourless to yellowish	
Odour:	almost odourless	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
pH value:	The substance / product decomposes therefore not determined.	
solidification temperature:	-61 °C	(DSC (DIN 51007))
Boiling point:	not determined	
Flash point:	> 35 - 60 °C	
Evaporation rate:	not determined	
Flammability:	not flammable	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	433 °C	(DIN EN 14522)
Vapour pressure:	< 0,01 hPa (25 °C) The product has not been tested. The statement has been derived from the properties of the individual components.	
Density:	approx. 1,1636 g/cm ³ (20 °C)	(ISO 2811-3)
	approx. 1,1404 g/cm ³ (50 °C)	(ISO 2811-3)
Relative density:	approx. 1,1636 (20 °C)	
Relative vapour density (air):	not determined	
Solubility in water:	Reacts with water.	
Solubility (qualitative) solvent(s):	polar solvents soluble	

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Partitioning coefficient n-octanol/water (log Kow):
Study does not need to be conducted.

Self ignition: not self-igniting

Thermal decomposition: not determined

Viscosity, dynamic: 2,0 - 3,6 Pa.s (DIN EN ISO 3219)
(23 °C, 100 1/s)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

9.2. Other information

Hygroscopy: Non-hygroscopic

Surface tension:

No data available.

Grain size distribution: The substance / product is marketed or used in a non solid or granular form.

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 chemically stable.

10.3. Possibility of hazardous reactions

Reacts with alcohols. Reacts with amines. Reacts with substances which contain active hydrogen. Reacts with water, with formation of carbon dioxide. The formation of gaseous decomposition products builds up pressure in tightly closed containers.

10.4. Conditions to avoid

Avoid moisture. Avoid direct contact with water. See SDS section 7 - Handling and storage. See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:
water, alcohols, amines

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Experimental/calculated data:

ATE (oral): 3.790 mg/kg (calculated)

ATE (dermal): > 5.000 mg/kg (calculated)

Irritation

Assessment of irritating effects:

Not irritating to eyes and skin. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:

Skin corrosion/irritation

rabbit:

not determined

Serious eye damage/irritation

rabbit:

not determined

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:

not determined

Germ cell mutagenicity

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

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Developmental toxicity

Assessment of teratogenicity:

Based on the ingredients, there is no suspicion of a teratogenic effect.

Specific target organ toxicity (single exposure)

Remarks: No data available.

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

Assessment of repeated dose toxicity:

The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity to fish:

LC50 (96 h), Fish (other)
not determined

Aquatic invertebrates:

LC50 (48 h), daphnia (other)
not determined

Aquatic plants:

EC50 (72 h), algae (other)
not determined

Microorganisms/Effect on activated sludge:

EC50 (0,5 h), bacteria (other)
not determined

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

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No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.

Elimination information:

Not readily biodegradable (by OECD criteria).

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: 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. Other adverse effects

No data available.

12.7. Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

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Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 2-METHOXY-1-METHYLETHYL ACETATE)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: Tunnel code: D/E

RID

UN number or ID number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 2-METHOXY-1-METHYLETHYL ACETATE)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 2-METHOXY-1-METHYLETHYL ACETATE)

Transport hazard class(es): 3

Packing group: III

Environmental hazards: no

Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

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Sea transport

IMDG

UN number or ID number: UN 1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 2-METHOXY-1-METHYLETHYL ACETATE)
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: None known

Air transport

IATA/ICAO

UN number or ID number: UN 1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 2-METHOXY-1-METHYLETHYL ACETATE)
Transport hazard class(es): 3
Packing group: III
Environmental hazards: No Mark as dangerous for the environment is needed
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.

14.5. Environmental hazards

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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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 75, 40

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Water hazard class (§8/§10 AwSV (Self-classification of the mixture according to calculation method)): (1) Weakly water polluting.

15.2. Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

SECTION 16: Other Information

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

Acute Tox.	Acute toxicity
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Flam. Liq.	Flammable liquids
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

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Product: **Basonat® HW 2170 MPA**

(ID no. 30796963/SDS_GEN_DE/EN)

Date of print 28.09.2022

Resp. Sens.	Respiratory sensitization
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H330	Fatal if inhaled.
H302	Harmful if swallowed.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.