



ORTHO

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Hardener for Epoxy Resin Plus

Material number REF 70.806.001.XXB

Revision date: 30.7.2026
Version: 2.0
Replaces version: 1.0
Language: en-DE
Date of print: 4.8.2026

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

1.1 Product identifier

Trade name: Hardener for Epoxy Resin Plus

This safety data sheet pertains to the following products:

70.806.001.02 = Hardener for Epoxy Resin Plus

70.806.001.12 = Hardener for Epoxy Resin Plus

UFI: 9410-R0RD-500C-EDK4

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

General use: Hardener component.
Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company name: Wilhelm Julius Teufel GmbH
Orthopädiotechnische Medizinprodukte
Street/POB-No.: Robert-Bosch-Straße 15
Postcode, city: 73117 Wangen / Göppingen
Germany

WWW: www.teufel-international.com
Email: info@teufel-international.com
Telephone: +49 (0)7161 15684-0
Telefax: +49 (0)7161 15684-222

Department responsible for information:
Telephone: +49 (0)7161 15684-0, Email: info@teufel-international.com

1.4 Emergency telephone number

GIZ-Nord, Germany, Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Acute Tox. 4; H302 Harmful if swallowed.
Skin Corr. 1A; H314 Causes severe skin burns and eye damage.
Eye Dam. 1; H318 Causes serious eye damage.
Skin Sens. 1; H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**



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Hazard statements:	H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage.
	H317	May cause an allergic skin reaction.
Precautionary statements:	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	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/doctor.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains:
3-Aminomethyl-3,5,5-trimethylcyclohexylamine
Poly-(oxypropylendiamine)
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Polyamine, modified



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Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119514687-32-xxxx EC No. 220-666-8 CAS 2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine Acute Tox. 4; H302. Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1A; H317. Acute toxicity estimate (ATE): Oral: 1030 mg/kg bw. Specific concentration limits (SCL): Skin Sens. 1A; H317: C ≥ 0,001 %	50 - 75 %
list no. 695-873-3 CAS 9046-10-0	Poly-(oxypropylendiamine) Skin Corr. 1; H314. Eye Dam. 1; H318.	25 - 50 %
REACH 01-2119560598-25-xxxx EC No. 247-063-2 CAS 25513-64-8	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine Acute Tox. 4; H302. Skin Corr. 1A; H314. Eye Dam. 1; H318. Skin Sens. 1A; H317.	1 - 10 %
REACH 01-2119965165-33-xxxx EC No. 500-101-4 CAS 38294-64-3	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Chronic 3; H412.	1 - 10 %

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General information:	Take off immediately all contaminated clothing and wash it before reuse. First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately get medical attention.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Immediately get medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayedReddening, pain, bloody lacrimation, irritation, stomachache.
Harmful if swallowed.
Causes severe skin burns and eye damage. May cause an allergic skin reaction.



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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Corrosive gases/vapours. Furthermore, there may develop: nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Use a breathing apparatus independent of the ambient air (isolated apparatus) and a full protection outfit (suit) against chemicals.

Additional information:

Do not inhale explosion and combustion gases. Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse.

Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

If necessary, notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Never return spills in original containers for re-use.

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.
Work place should be equipped with a shower and an eye rinsing apparatus.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight. Store containers in upright position.
Recommended storage temperature: 15 - 25 °C .
Unsuitable container/equipment material: Aluminium, copper.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Do not store together with: Acids, oxidizing agents, bases, isocyanates, organic nitro compounds.

Storage class:

8A = Combustible corrosive substances

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL:

Information about 3-Aminomethyl-3,5,5-trimethylcyclohexylamine (CAS 2855-13-2):
DNEL, workers, inhalative, local, long-term: 0,073 mg/m³
DNEL, workers, inhalative, local,, short-term: 0,073 mg/m³
Information about Poly-(oxypropylendiamine) (CAS 9046-10-0):
DNEL, workers, inhalative, systemic, long-term: 1,36 mg/m³
DNEL, workers, dermal, systemic, long-term: 2,5 mg/kg bw/d
Information about 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine (CAS 25513-64-8):
DNEL, consumers, oral, systemic, long-term: 0,5 mg/kg bw/d
Information about 4,4'-Isopropylidenediphenol, oligomeric reaction products with
1-chloro-2,3-epoxypropane, reaction products with
3-aminomethyl-3,5,5-trimethylcyclohexylamine (CAS 38294-64-3):
DNEL, workers, inhalative, systemic, long-term: 0,493 mg/m³
DNEL, workers, dermal, systemic, long-term: 0,14 mg/kg bw/d



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PNEC: Information about 3-Aminomethyl-3,5,5-trimethylcyclohexylamine (CAS 2855-13-2)::
PNEC, water (freshwater): 0,06 mg/L
PNEC, water (marine water): 0,006 mg/L
PNEC, sewage treatment plant: 3,18 mg/L
PNEC, sediment (freshwater): 5,784 mg/kg dw
PNEC, sediment (marine water): 0,578 mg/kg dw
PNEC, soil: 1,121 mg/kg dw

Information about Poly-(oxypropylendiamine) (CAS 9046-10-0):
PNEC, water (freshwater): 0,015 mg/L
PNEC, water (marine water): 0,014 mg/L
PNEC, sewage treatment plant: 7,5 mg/L
PNEC, sediment (freshwater): 0,132 mg/kg dw
PNEC, sediment (marine water): 0,125 mg/kg dw
PNEC, soil: 0,018 mg/kg dw

Information about 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine (CAS 25513-64-8):
PNEC, water (freshwater): 0,102 mg/L
PNEC, water (marine water): 0,01 mg/L
PNEC, sewage treatment plant: 72 mg/L
PNEC, sediment (freshwater): 0,622 mg/kg dw
PNEC, sediment (marine water): 0,062 mg/kg dw
PNEC, soil: 10 mg/kg dw

Information about 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine (CAS 38294-64-3):
PNEC, water (freshwater): 0,011 mg/L
PNEC, water (marine water): 0,001 mg/L
PNEC, sewage treatment plant: 10 mg/L
PNEC, sediment (freshwater): 4.320 mg/kg dw
PNEC, sediment (marine water): 432 mg/kg dw
PNEC, soil: 864 mg/kg dw

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection.
Use filter type A (= against vapours of organic substances) according to DE EN 14387.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to DIN EN ISO 374-1.
Breakthrough time: > 480 min
Glove material: Nitrile rubber
Layer thickness: ≥ 0,4 mm
Glove material: Butyl caoutchouc (butyl rubber)
Layer thickness: ≥ 0,7 mm
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

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Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	transparent - light yellow
Odour:	Amine odour
Melting point/freezing point:	No data available
Boiling point:	No data available
Flammability:	This material is combustible, but will not ignite readily.
Lower and upper explosion limit:	LEL (Lower Explosion Limit): 0,70 Vol-% UEL (Upper Explosive Limit): 5,00 Vol-%
Flash point:	> 110 °C
Auto-ignition temperature:	230 °C
Decomposition temperature:	No data available
pH:	No data available
Kinematic viscosity:	No data available
Dynamic viscosity:	at 25 °C: 100,0 - 300,0 mPa*s
Solubility:	No data available
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	at 20 °C: 0,9 hPa
Density:	at 20 °C: 0,957 - 0,977 g/mL
Relative vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Additional information:	Temperature Class T3

SECTION 10: Stability and reactivity

10.1 Reactivity

May be corrosive to metals.



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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Exothermic reactions with acids.

10.4 Conditions to avoid

Protect from heat and direct sunlight.

10.5 Incompatible materials

Acids, Oxidising agent, bases, isocyanates, organic nitro compounds

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

SECTION 11: Toxicological information

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

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Acute Tox. 4; H302 = Harmful if swallowed. ATEmix (calculated):
300 mg/kg < ATE ≤ 2.000 mg/kg

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Corr. 1A; H314 = Causes severe skin burns and eye damage.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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



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11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about 3-Aminomethyl-3,5,5-trimethylcyclohexylamine (CAS 2855-13-2):
LD50 Rat, oral: 1.030 mg/kg

Information about 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine (CAS 25513-64-8):
LD50 Rat, oral: 910 mg/kg

Symptoms

After eye contact:

Upon direct contact with eyes may cause burning, tearing, redness. Prolonged eye contact may damage the cornea.

SECTION 12: Ecological information

12.1 Toxicity

Water Hazard Class: 2 = obviously hazardous to water

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

None

12.7 Other adverse effects

AOX reference:

Product does not contain organically bound halogen (AOX).

General information:

Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances

* = Evidence for disposal must be provided.



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Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

Section 14. Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
UN 2735

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:
UN 2735, AMINES, LIQUID, CORROSIVE, N.O.S.
(3-Aminomethyl-3,5,5-trimethylcyclohexylamine
Poly-(oxypropylendiamine))

14.3 Transport hazard class(es)

ADR/RID, ADN: Class 8, Code: C7
IMDG: Class 8, Subrisk -
IATA-DGR: Class 8



14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:
III

14.5 Environmental hazards

Dangerous for the environment:
Substance/mixture is not environmentally
hazardous according to the criteria of the UN
model regulations.

Marine pollutant - IMDG: no

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	ADR/RID: Hazard identification number 80, UN number UN 2735
Hazard label:	8
Special Provisions:	274
Limited quantities:	5 L
EQ:	E1
Package - Instructions:	P001 IBC03 LP01 R001
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T7
Portable tanks - Special Provisions:	TP1 TP28
Tank coding:	L4BN
Tunnel restriction code:	E



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Inland waterway craft (ADN)

Hazard label: 8
Special Provisions: 274
Limited quantities: 5 L
EQ: E1
Transport permitted: T
Equipment necessary: PP - EP

Sea transport (IMDG)

EmS: F-A, S-B
Special Provisions: 223 274
Limited quantities: 5 L
Excepted quantities: E1
Package - Instructions: P001, LP01
Package - Provisions: -
IBC - Instructions: IBC03
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T7
Tank instructions - Provisions: TP1, TP28
Stowage and handling: Category A.
Segregation: SG35

Properties and observations: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. React violently with acids. Cause burns to skin, eyes and mucous membranes.

Segregation group: 18

Air transport (IATA)

Hazard label: Corrosive
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special Provisions: A3 A803
Emergency Response Guide-Code (ERG): 8L

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 8A = Combustible corrosive substances
Water Hazard Class: 2 = obviously hazardous to water
Technical guidance air: 5.2.5
Information on working limitations:
Observe employment restrictions for young people.



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Further regulations, limitations and legal requirements:

No data available

National regulations - EC member states

Volatile organic compounds (VOC):

35 % by weight

Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

Precautionary statements:

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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/doctor.

P501

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

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Classification procedure: Physical hazards: on basis of test data
Health hazards: calculation method

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H412 = Harmful to aquatic life with long lasting effects.

Reason of change: Changes in section 1: UFI

Date of first version: 13.9.2024

Department issuing data sheet:

see section 1: Department responsible for information



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Abbreviations and acronyms:

Acute Tox.: Acute toxicity
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
AOX: Adsorbable Organic Halogens
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
ATE: Acute toxicity estimate
ATEmix: Acute Toxicity Estimate of mixture
Bw: Body weight
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.: Skin corrosion
Skin Sens.: Skin sensitisation
TRGS: Technical Rules for Hazardous Substances
UFI: Unique Formula Identifier
UN: United Nations
vPvB: Very persistent and very bioaccumulative

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.