

617H19S - Orthocryl Lamination Resin 80:20 Speed

Material number 617H19S

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1. Identification

Product identifier

Trade name: 617H19S - Orthocryl Lamination Resin 80:20 Speed

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

General use: Lamination resin for orthopedic procedures.
Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care
Street/POB-No.: 3820 W. Great Lakes Drive
Zip code, city: Salt Lake City, UT 84120
USA
WWW: www.ottobockus.com
Telephone: +1 (801) 956-2400
Telefax: +1 (801) 956-2401
Department responsible for information: Quality Department,
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),
Email: USRegulatory@ottobock.com
Additional information: Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency telephone number

CHEMTREC, Telephone: +1 (800) 424-9300
Transport:
CONSULTANK Lutz Harder GmbH (Contract QUALI003)
Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazard identification

Classification of the substance or mixture

Flammable Liquid - Category 2	Highly flammable liquid and vapor.
Skin Irritation - Category 2	Causes skin irritation.
Sensitization - skin - Category 1	May cause an allergic skin reaction.
Specific Target Organ Toxicity (Single Exposure) - Category 3	May cause respiratory irritation.

Label elements

Symbols:



Signal word:

Danger

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Hazard statements: Highly flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.
Call a POISON CENTER/doctor if you feel unwell.

Store in a well-ventilated place. Keep cool.

Other hazards

Product is normally delivered in a stable state. However, if shelf life and/or recommended storage temperature are exceeded to a large degree, product may polymerize and generate heat.
Due to reducing substances, peroxides and heavy metal ions, polymerization with heat generation may occur.
Potentially explosive mixtures may form if adequate ventilation is not provided.
Higher doses may have a narcotic effect.

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3. Composition/information on ingredients

Mixtures

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 80-62-6	Methyl methacrylate	50 - 100 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate	1 - 5 %	Sensitization - skin - Category 1B.
CAS 38668-48-3	1,1'-(p-Tolylimino) dipropan-2-ol	< 1 %	Acute Toxicity - oral - Category 2. Eye Irritation - Category 2A. Aquatic toxicity - acute - Category 3. Aquatic toxicity - chronic - Category 3.
CAS 123-81-9	Ethylene di(S-thioacetate)	< 1 %	Acute Toxicity - oral - Category 3. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Eye Irritation - Category 2. Sensitization - skin - Category 1A. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - acute - Category 1.
CAS 141-32-2	n-Butyl acrylate	< 1 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - chronic - Category 3.

The actual concentration or concentration range is withheld as a trade secret.

4. First aid measures

General information:	Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention.
Following skin contact:	After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.
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 consult an ophthalmologist.
After swallowing:	Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

May cause respiratory irritation. Causes skin irritation.
May cause an allergic skin reaction.
Headache, drowsiness

Information to physician

Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Foam, dry chemical powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Highly flammable liquid and vapor. Concentrated vapors are heavier than air.
Air combined with vapors may form potentially explosive mixtures that are heavier than air.
Vapors may proceed on the ground over great distances and cause fire and backflashes.
In case of fire may be liberated: Organic crack products, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating will lead to pressure increase: danger of bursting and explosion. Use fine water spray to cool endangered containers.
Move undamaged containers from immediate hazard area if it can be done safely.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing mist/vapors/spray. Avoid contact with the substance.
Eliminate all ignition sources if safe to do so. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Take off contaminated clothing and wash it before reuse. Cordon off downwind area at risk and warn inhabitants.
Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!
In case of release, notify competent authorities.

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Methods and material for containment and cleaning up

- Methods for clean-up: Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).
- Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Precautions for safe handling

- Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapors/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 contaminated clothing and wash it before reuse.
When handling large quantities, supply emergency spray.
- Precautions against fire and explosion:
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form.

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. Explosion protection required.
Storage temperature < 30 °C
- Hints on joint storage: Do not store together with organic peroxides, ammonia or persulphates.
keep away from: reducing agent, amines, heavy metals, oxidizing agents, alkalis
- Further details: Due to reducing substances, peroxides and heavy metal ions, polymerization with heat generation may occur.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
80-62-6	Methyl methacrylate	USA: ACGIH: STEL	410 mg/m ³ ; 100 ppm
		USA: ACGIH: TWA	205 mg/m ³ ; 50 ppm
		USA: IDLH: TWA	1,000 ppm
		USA: NIOSH: TWA	410 mg/m ³ ; 100 ppm
		USA: OSHA: TWA	410 mg/m ³ ; 100 ppm
141-32-2	n-Butyl acrylate	USA: ACGIH: TWA	11 mg/m ³ ; 2 ppm
		USA: IDLH: TWA	113 ppm
		USA: NIOSH: TWA	55 mg/m ³ ; 10 ppm

Appropriate engineering controls

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

Personal protection equipment (PPE)

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: butyl caoutchouc (butyl rubber)
Layer thickness: 0,3 mm.
Breakthrough time: 60 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Body protection: Flame retardant, antistatic and chemical resistant protective clothing.

General hygiene considerations:
Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Avoid breathing mist/vapors/spray. Avoid contact with skin and eyes.
Take off contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
When using do not eat, drink or smoke.
Wash hands thoroughly after handling.
When handling large quantities, supply emergency spray.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

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9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 68 °F and 101.3 kPa	liquid
Color:	colorless
Odor:	Ester-like
Odor threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	212 °F (MMA)
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit) at 50 °F: 2.10 Vol-% (MMA) UEL (Upper Explosive Limit): 12.50 Vol-% (MMA)
Flash point/flash point range:	50 °F (MMA)
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Viscosity:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	No data available
Density:	No data available
Vapor density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties:	Vapors may form explosive mixtures with air.
Additional information:	Self-accelerating polymerisation temperature (SAPT), relating to the transport duration: > 122 °F

10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor. Concentrated vapors are heavier than air. Methyl methacrylate: Explosive mixtures with air may even form at room temperature.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Product is normally delivered in a stable state. However, if shelf life and/or recommended storage temperature are exceeded to a large degree, product may polymerize and generate heat. Due to reducing substances, peroxides and heavy metal ions, polymerization with heat generation may occur. Heating will lead to pressure increase: danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight. Protect from: UV-radiation/sunlight

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Incompatible materials: Keep away from: sulphur compounds, reducing agent, amines, heavy metals, peroxides, oxidizing agents, alkalis.

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

11. Toxicological information

Information on toxicological effects

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): Based on available data, the classification criteria are not met.
ATEmix: 7,000 - 8,000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

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): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Lack of data.

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

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Other information:

Information about Methyl methacrylate:

LD50 Rat, oral: > 5,000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 5,000 mg/kg

LC50 Rat, inhalative: 7,093 ppm/4h = 29.8 mg/L/4h

Information about 2,2'-Ethylenedioxydiethyl dimethacrylate:

LD50, Rat, oral: > 5,000 mg/kg

LD50, Mouse, dermal: > 2,000 mg/kg

Information about 1,1'-(p-Tolylimino)dipropyl-2-ol:

LD50, Rat, oral: > 25 mg/kg

LD50, Rat, dermal: > 2,000 mg/kg

Information about Ethylene di(S-thioacetate):

LD50, Rat, oral: 303 mg/kg

LD50, Rat, dermal: > 2,000 mg/kg

ATE inhalative (dust/mist): 1.5 mg/L/4h

ATE inhalative (vapor): 11 mg/L/4h

Information about n-Butyl acrylate:

LD50, Rat, oral: > 3,150 mg/kg

LD50, Rabbit, dermal: > 2,000 mg/kg

LC50, Rat, inhalative: 10.3 mg/L/4h

For carcinogenic effects:

Information about Methyl methacrylate:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Information about n-Butyl acrylate:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Symptoms

Headache, drowsiness

After eye contact: May cause irritations.

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12. Ecological information

Ecotoxicity

Aquatic toxicity:

Information about Methyl methacrylate:

Fish toxicity:

LC50 Oncorhynchus mykiss: > 79 mg/L/96h (OECD 203)

NOEC Danio rerio (zebrafish): 9.4 mg/L/35d (OECD 210)

LC50 Danio rerio (zebrafish): 33.7 mg/L/35d (OECD 210)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 69 mg/L/48h (OECD 202)

NOEC Daphnia magna (Big water flea): 48 mg/L/48h

NOEC Daphnia magna (Big water flea): 37 mg/L/21d (OECD 202)

EC50 Daphnia magna (Big water flea): 49 mg/L/21d (OECD 211)

Algae toxicity:

EC50 Selenastrum capricornutum (green algae): >110 mg/L/72h (OECD 201)

NOEC Selenastrum capricornutum (green algae): >110 mg/L/72h (OECD 201)

Information about 2,2'-Ethylenedioxydiethyl dimethacrylate:

Fish toxicity:

LC50 Danio rerio (zebrafish): 16.4 mg/L/96h (OECD 203)

Daphnia toxicity:

NOEC Daphnia magna (Big water flea): 32 mg/L/21d (OECD 211)

EC50 Daphnia magna (Big water flea): 51.9 mg/L/21d

Algae toxicity:

EC50 Pseudokirchneriella subcapitata (green algae): > 100 mg/L/72h (OECD 201)

Algae toxicity:

NOEC Pseudokirchneriella subcapitata (green algae): 18.6 mg/L/72h (OECD 201)

Information about 1,1'-(p-Tolylimino)dipropen-2-ol:

Fish toxicity:

LC50 Danio rerio (zebrafish): 17 mg/L/96h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 28.8 mg/L/48h (OECD 202)

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): 245 mg/L/72h (OECD 201)

Toxicity to microorganisms:

EC10: > 1.995 mg/L/30 min (OECD 209)

Information about Ethylene di(S-thioacetate):

Fish toxicity:

LC50 Leuciscus idus: 4.85 mg/L/48h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 11 mg/L/48h

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): >100 mg/L/72h (OECD 201)

NOEC Desmodesmus subspicatus (green algae): >= 100 mg/L/72h (OECD 201)

Information about n-Butyl acrylate:

Fish toxicity:

LC50 Oncorhynchus mykiss: > 5.2 mg/L/96h (OECD 203)

NOEC Oncorhynchus mykiss: 3.8 mg/L/96h

Daphnia toxicity:

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EC50 Daphnia magna (Big water flea): 8.2 mg/L/48h (OECD 202)
NOEC Daphnia magna (Big water flea): 2.4 mg/L/48h
NOEC Daphnia magna (Big water flea): 0.136 mg/L/21d (OECD 211)
LOEC Daphnia magna (Big water flea): 0.457 mg/L/21d (OECD 211)
Algae toxicity:
EC50 Selenastrum capricornutum (green algae): 2.65 mg/L/96h (OECD 201)
Toxicity to microorganisms:
EC0 activated sludge: > 150 mg/L/3d

Persistence and degradability

Further details: Easily bio-degradable

Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.
In case of spills of large quantities: Danger to drinking water.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Package

Recommendation: Handle empty containers with care. Incineration may cause explosion. Dispose of waste according to applicable legislation.

14. Transport information

UN number

DOT: UN1247
IMDG, IATA-DGR: UN 1247

UN proper shipping name

DOT, IMDG, IATA-DGR: UN 1247, METHYL METHACRYLATE MONOMER, STABILIZED mixture

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Transport hazard class(es)

DOT: 3
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3



Packing group

DOT, IMDG, IATA-DGR: II

Environmental hazards

Marine pollutant: no

Transport in bulk according to IMO instruments

No data available

Special precautions for user

USA: Department of Transportation (DOT)

Labels: 3
Special Provisions: 387, IB2, T4, TP1
Packaging – Exceptions: 150
Packaging – Non-bulk: 202
Packaging – Bulk: 242
Quantity limitations – Passenger aircraft / rail: 5 L
Quantity limitations – Cargo only: 60 L
Vessel stowage – Location: C
Vessel stowage – Other: 25, 40

Sea transport (IMDG)

EmS: F-E, S-D
Special Provisions: 386
Limited quantities: 1 L
Excepted quantities: E2
Package - Instructions: P001
Package - Provisions: -
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1
Stowage and handling: Category C. SW1 SW2
Properties and observations: Colourless, volatile liquid. Flashpoint: 8°C c.c. Explosive limits: 1.5% to 11.6%. Immiscible with water, Irritating to skin, eyes and mucous membranes.
Marine pollutant: no
Segregation group: none

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Air transport (IATA)

Proper shipping name: UN 1247, METHYL METHACRYLATE MONOMER, STABILIZED mixture
Hazard label: Flamm. liquid
Excepted Quantity Code: E2
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special Provisions: A209
Emergency Response Guide-Code (ERG): 3L

Further information

Self-accelerating polymerisation temperature (SAPT), relating to the transport duration: > 122 °F

15. Regulatory information

National regulations - U.S. Federal Regulations

Product: TSCA: All ingredients are listed or exempt from listing.
Methyl methacrylate: Carcinogen Status: IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Clean Air Act:
CAA Hazardous Air Pollutants: yes
CAA SOCM Chemical: yes
Clean Water Act:
CWA Hazardous Substances: Category C; RQ 1000.0 lbs
Other Environmental Laws:
CERCLA: RQ 1000 lbs.
RCRA Hazardous Wastes: Waste Code U162
RCRA Groundwater Monitoring: listed
SARA Title III, Section 313, Toxic Release: NPFAS; De Minimis <=1.0 %;
Thresholds 25000/10000 lbs
NIOSH Recommendations:
Occupational Health Guideline: 0426
n-Butyl acrylate: Carcinogen Status: IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
Clean Air Act:
CAA SOCM Chemical: yes
Other Environmental Laws:
SARA Title III, Section 313, Toxic Release: NPFAS; De Minimis <=1.0 %;
Thresholds 25000/10000 lbs
NIOSH Recommendations:
Occupational Health Guideline: 0075*

National regulations - U.S. State Regulations

Methyl methacrylate: New York Right-To-Know: listed

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Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labeling: Contains 50 - 100 % Methyl methacrylate, 1 - 5 % 2,2'-Ethylenedioxydiethyl dimethacrylate, < 1 % 1,1'-(p-Tolylimino)dipropyl-2-ol, < 1 % Ethylene di(S-thioacetate), < 1 % n-Butyl acrylate.

Revision date: 11/28/2025

Date of first version: 4/7/2016

Reason of change: General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

Hazard rating systems:



NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 3 (Serious)
Reactivity: 0 (Minimal)

HMIS Version III Rating:
Health: 2 (Moderate)
Flammability: 3 (Serious)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor
JT Baker Storage Color Code: Red (Flammable Hazard)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
	X

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Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
ATE: Acute toxicity estimate
ATEmix: Acute Toxicity Estimate of mixture
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
DOT: Department of Transportation's Safety Regulations (USA)
EC: Effective Concentration
EC: European Community
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
Eye Irritation: Eye irritation
Flammable Liquid: Flammable liquid
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
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
UV: Ultraviolet
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Department issuing data sheet

Contact person: see section 1: Department responsible for information

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.