

1 Identification

Product identifier

Trade name: 617H21 - ORTHOCRYL Sealing Resin

Recommended use and restrictions on use

General use: Lamination resin for orthopedic procedures

Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

Postal code, city: Burlington, ON L7L 5N5, CA
Canada

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Email: info.canada@ottobock.com

Telephone: (800) 665-3327

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Department responsible for information:

Mark Agro, Telephone: (800) 665-3327 (9 am - 5 pm)

Additional information:

Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency telephone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2 Hazard identification

Classification

Flammable Liquid 2

Skin Irritation 2

Sensitization - skin 1

Specific Target Organ Toxicity (Single Exposure) 3

Aquatic toxicity - acute 3

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful to aquatic life.

Information elements

Symbols:



Signal word:

Danger

Hazard statements:

- Highly flammable liquid and vapour.
- Causes skin irritation.
- May cause an allergic skin reaction.
- May cause respiratory irritation.
- Harmful to aquatic life.

Precautionary statements:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Ground/bond container and receiving equipment.
- Use explosion-proof equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash hands and face thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- IF ON SKIN: Wash with plenty of water/soap.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- Specific treatment (see 'First aid' on this label).
- If skin irritation or rash occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use dry powder, foam or carbon dioxide for extinction.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- Dispose of contents/container to hazardous or special waste collection point.

Other hazards known to the supplier with respect to the product

Special danger of slipping by leaking/spilling product. Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.
Potentially explosive mixtures may form if adequate ventilation is not provided. Higher doses may lead to a narcotic effect.

3 Composition/Information on ingredients

Mixture

Chemical name: Solution of acrylic polymers in methylmethacrylate, containing softener. (MMA)

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 80-62-6	Methyl methacrylate	50 - 100 %	Flammable Liquid 2. Skin Irritation 2. Sensitization - skin 1. Specific Target Organ Toxicity (Single Exposure) 3. Aquatic toxicity - acute 3.
CAS 109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate	1 - 5 %	Sensitization - skin 1. Aquatic toxicity - acute 3.
CAS 38668-48-3	1,1'-(p-Tolylimino) dipropan-2-ol	< 1 %	Acute Toxicity 2 (oral). Eye Irritation 2. Aquatic toxicity - acute 3.
CAS 77745-66-5	Triisotridecyl phosphite	< 1 %	Sensitization - skin 1. Aquatic toxicity - chronic 4.
CAS 123-81-9	Ethylene di(S-thioacetate)	< 1 %	Acute Toxicity 3 (oral). Acute Toxicity 4 (dermal). Acute Toxicity 4 (inhalative). Eye Irritation 2. Sensitization - skin 1. Specific Target Organ Toxicity (Single Exposure) 3. Aquatic toxicity - acute 1.
CAS 141-32-2	n-Butyl acrylate	< 1 %	Flammable Liquid 3. Acute Toxicity 4 (inhalative). Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Specific Target Organ Toxicity (Single Exposure) 3. Aquatic toxicity - acute 2. Aquatic toxicity - chronic 3.

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

4 First-aid measures

Description of necessary first-aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse.
In case of inhalation:	Remove person to fresh air and keep comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention if problems persist.
In case of swallowing:	Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
In case of skin contact:	After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.
In case of 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. In case of eye irritation consult an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

May be harmful if swallowed or if inhaled.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
Higher doses may lead to a narcotic effect.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide

Unsuitable extinguishing media:

Full water jet

Specific hazards arising from the product

Highly flammable liquid and vapour. vapours may proceed on the ground over great distances and cause fire and backflashes. In case of insufficient ventilation and/or when used, may form explosive/highly flammable vapour-air mixture.

May form dangerous gases and vapours in case of fire. Danger of formation of toxic pyrolysis products. Furthermore, there may develop: Sulphur oxides, carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire-fighters

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

Additional information:

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

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.

Contaminated fire-fighting water must be collected separately.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Eliminate all ignition sources if safe to do so.

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.

Environmental precautions:

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

Methods and material for containment and cleaning 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). Never return spills in original containers for re-use.

Additional information:

Special danger of slipping by leaking/spilling product.

7 Handling and storage

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. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only explosion-protected equipment/instruments. In partially filled containers explosive mixtures may form.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep only in the original container at temperature not exceeding 25 °C. Keep container tightly closed. Protect from light. Because oxygen (air) is necessary to stabilize product, fill container only to 90% of capacity. Store containers in upright position.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs. Do not store together with: Radical formers, amines, sulphur compounds, metallic compounds, reducing agents, oxidizing agents.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
80-62-6	Methyl methacrylate	Canada: Alberta, OEL 15 min	410 mg/m ³ ; 100 ppm
		Canada: Alberta, OEL 8 hour	205 mg/m ³ ; 50 ppm
		Canada: BC, OEL STEL	100 ppm
		Canada: BC, OEL TWA	50 ppm
		Canada: Québec, VECD	100 ppm
		Canada: Québec, VEMP	50 ppm
141-32-2	n-Butyl acrylate	Canada: Alberta, OEL 8 hour	10 mg/m ³ ; 2 ppm
		Canada: BC, OEL TWA	2 ppm
		Canada: Québec, VEMP	2 ppm

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of inadequate ventilation wear respiratory protection. Recommendation: Use filter type A (= against vapours of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
Hand protection:	Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: butyl caoutchouc (butyl rubber) - Layer thickness: 0.7 mm Breakthrough time approx. 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. In case of handling larger quantities: Face mask, chemical-resistant boots and apron
General hygiene considerations:	Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. 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.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	colourless
Odour:	Ester-like
Odour threshold:	No data available
Melting point and freezing point:	Not determined
Boiling point or initial boiling point and boiling range:	approx. 100 °C
Flammability:	Highly flammable liquid and vapour.
Lower and upper explosion limit or lower and upper flammability limit:	LEL (Lower Explosion Limit) at 10 °C: 2.10 Vol-% (Methyl methacrylate) UEL (Upper Explosive Limit): 12.50 Vol-% (Methyl methacrylate)
Flash point/flash point range:	10 °C (Methyl methacrylate)
Evaporation rate:	No data available
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available
pH:	Not applicable
Dynamic viscosity:	at 20 °C: approx. 320 mPa*s
Water solubility:	at 20 °C: approx. 16 g/L

Partition coefficient — n-octanol/water:	at 20 °C: 2.3 log K(o/w) (2,2'-Ethylenedioxydiethyl dimethacrylate) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. at 20 °C: 1.38 log K(o/w) (Methyl methacrylate) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. at 20 °C: 1.46 log K(o/w) (Ethylene di(S-thioacetate)) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Vapour pressure:	at 20 °C: approx. 40 hPa at 50 °C: 159 hPa
Density and/or relative density	at 20 °C: approx. 1 g/mL
Vapour density:	at 20 °C: > 1
Particle characteristics:	Not applicable

Additional information

Explosive properties:	vapours may form explosive mixtures with air.
Oxidizing characteristics:	Not oxidising
Ignition temperature:	430 °C (Methyl methacrylate)

10 Stability and reactivity

Reactivity:	Highly flammable liquid and vapour.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	vapours may form explosive mixtures with air. Heating will lead to pressure increase: danger of bursting and explosion. Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from direct sunlight.
Incompatible materials:	Radical former, amines, sulphur compounds, metallic compounds, reducing agent, oxidizing agents
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

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

ATEmix (calculated): 2,000 mg/kg < ATE ≤ 5,000 mg/kg

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

ATEmix (calculated): > 5,000 mg/kg

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

ATEmix (vapour, calculated): 20 mg/L/4h < ATE ≤ 50 mg/L/4h

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

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

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

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 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.

Other information:

Information about Methyl methacrylate (CAS 80-62-6):

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

LD50 Rabbit, dermal: > 5,000 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour) : 29.8 mg/L/4h

Information about 1,1'-(p-Tolylimino)dipropen-2-ol (CAS 38668-48-3):

LD50 Rat, oral: > 25 mg/kg (OECD 423)

LD50 Rabbit, dermal: > 2,000 mg/kg (OECD 402), no mortality occurred

Information about Ethylene di(S-thioacetate) (CAS 123-81-9):

LD50 Rat, oral: 50 - 300 mg/kg (OECD 423)

LD50 Rabbit, dermal: 1,936 mg/kg (OECD 402)

LC50 Rat, inhalative (dust/mist): 1.5 mg/L/4h (OECD 403)

Symptoms

May cause headache and dizziness.

In case of inhalation:

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

After contact with skin: The product is skin resorptive.

12 Ecological information

Ecotoxicity

Aquatic toxicity:

Harmful to aquatic life.

Information about Methyl methacrylate (CAS 80-62-6):

Fish toxicity:

LC50 *Lepomis macrochirus* (Bluegill): 191 mg/L/96h (OECD 203)

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

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 69 mg/L/48h (EPA OTS 797.1300)

NOEC *Daphnia magna* (Big water flea): 37 mg/L/21d (OECD 211)

Algae toxicity:

ErC50 *Pseudokirchneriella subcapitata* (green algae): > 110 mg/L/72h (OECD 201)

NOEC *Pseudokirchneriella subcapitata* (green algae): ≥ 110 mg/L/72h (OECD 201)

Information about 2,2'-Ethylenedioxydiethyl dimethacrylate (CAS 109-16-0):

Fish toxicity:

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

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

Algae toxicity:

ErC50 *Pseudokirchneriella subcapitata* (green algae): > 100 mg/L/72h (OECD 201)

ErC10 *Pseudokirchneriella subcapitata* (green algae): 61 mg/L/72h (OECD 201)

Information about Ethylene di(S-thioacetate) (CAS 123-81-9):

Fish toxicity:

LC50 *Oncorhynchus mykiss*: 0.508 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 3.94 mg/L/48h (OECD 202)

NOEC *Daphnia magna* (Big water flea): 1 mg/L/21d (OECD 211)

Algae toxicity:

ErC50 *Pseudokirchneriella subcapitata* (green algae): 2.77 mg/L/72h (OECD 201)

NOEC *Pseudokirchneriella subcapitata* (green algae): 0.32 mg/L/72h (OECD 201)

Effects in sewage plants:

Information about Methyl methacrylate (CAS 80-62-6):

NOEC activated sludge: ≥ 100 mg/L/14d (OECD 301 C)

Information about Ethylene di(S-thioacetate) (CAS 123-81-9):

EC50 *Pseudomonas putida*: 24 mg/L/16h (DIN 38412)

EC10 *Pseudomonas putida*: 12 mg/L/16h (DIN 38412)

Persistence and degradability

Further details:

Biodegradability:

Information about Methyl methacrylate (CAS 80-62-6):

Oxygen consumption: 94%/14d (OECD 301 C), easily bio-degradable

Information about 2,2'-Ethylenedioxydiethyl dimethacrylate (CAS 109-16-0):

Formation of carbon dioxide: 85%/28d (OECD 301 B), easily bio-degradable

Information about Ethylene di(S-thioacetate) (CAS 123-81-9):

Formation of carbon dioxide: 85%/28d (OECD 301 B), inherently biodegradable

Bioaccumulative potential

Partition coefficient — n-octanol/water:

at 20 °C: 2.3 log K(o/w) (2,2'-Ethylenedioxydiethyl dimethacrylate)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 20 °C: 1.38 log K(o/w) (Methyl methacrylate)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

at 20 °C: 1.46 log K(o/w) (Ethylene di(S-thioacetate))

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

Mobility in soil

Information about Methyl methacrylate (CAS 80-62-6):

Adsorption coefficient: log KOC: 0.94

Other adverse effects

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

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter drains.

Package

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

14 Transport information

UN number

TDG: UN1866

IMDG, IATA-DGR: UN 1866

UN proper shipping name

TDG: UN 1866, resin solution

IMDG, IATA-DGR: UN 1866, RESIN SOLUTION

Transport hazard class

TDG: 3

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3

Packing group

TDG, IMDG, IATA-DGR: II



Environmental hazards

Marine pollutant: no

Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Explosive limit and limited quantity index: 5 L
Passenger carrying road or rail index: 5 L

Sea transport (IMDG)

EmS: F-E, S-E
Special Provisions: -
Limited quantities: 5 L
Excepted quantities: E2
Package - Instructions: P001
Package - Provisions: PP1
IBC - Instructions: IBC02
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: T4
Tank instructions - Provisions: TP1, TP8
Stowage and handling: Category B.
Properties and observations: Miscibility with water depends upon the composition.
Marine pollutant: no
Segregation group: none
Remarks: For packages < = 30 litres: PG III (IMDG 2.3.2.2)

Air transport (IATA)

Proper shipping name: UN 1866, RESIN SOLUTION
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: A3
Emergency Response Guide-Code (ERG): 3L
Remarks: For packages < = 30 litres: PG III (IATA 3.3.3.1)

15 Regulatory information

National regulations - Canada

Methyl methacrylate: DSL: listed
Priority Substances List: listed (PSL 1)
2,2'-Ethylenedioxydiethyl dimethacrylate: DSL: listed
1,1'-(p-Tolylimino)dipropen-2-ol: DSL: listed
Ethylene di(S-thioacetate): DSL: listed
n-Butyl acrylate: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Text for labelling:

Contains:

Methyl methacrylate

2,2'-Ethylenedioxydiethyl dimethacrylate

Triisotridecyl phosphite

Ethylene di(S-thioacetate)

n-Butyl acrylate

Revision date:

22/4/2026

Date of first version:

4/9/1998

Reason of change:

Changes in section 2: Classification, labelling

Changes in section 3: Composition/information on ingredients

Changes in section 9: Physical and chemical properties

General revision

Classification procedure:

Physical hazards: on basis of test data

Health hazards, environmental hazards: calculation method

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
ATEmix: Acute Toxicity Estimate of mixture
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DIN: German Institute for Standardization
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
DSL: Domestic Substances List
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
MFSU: Manufacture, formulation, supply and use
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
PSL: Priority Substances List
Sensitization - skin: Skin sensitisation
Skin Irritation: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TDG: Transportation of Dangerous Goods Regulation in Canada
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
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.