

1. Identification

Product identifier

Trade name: 635L2 - Special Lacquer, colorless

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

General use: Varnish 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.
Eye Irritation - Category 2A	Causes serious eye irritation.
Reproductive toxicant - Category 2	Suspected of damaging the unborn child.
Specific Target Organ Toxicity (Single Exposure) - Category 3	May cause drowsiness or dizziness.
Specific Target Organ Toxicity (Repeated Exposure) - Category 2	May cause damage to organs through prolonged or repeated exposure.
Aquatic toxicity - chronic - Category 3	Harmful to aquatic life with long lasting effects.

Label elements

Symbols:



Signal word:

Danger

Hazard statements:

Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Precautionary statements:

Obtain special instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.

Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.
Special danger of slipping by leaking/spilling product.

3. Composition/information on ingredients

Mixtures

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 123-86-4	n-Butyl acetate	25 - 50 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 141-78-6	Ethyl acetate	10 - 25 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 9004-70-0	Nitrocellulose <12,6% N	10 - 25 %	Flammable Solid - Category 1.
CAS 108-88-3	Toluene	10 - 25 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Eye Irritation - Category 2A. Reproductive toxicant - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 3.
CAS 67-64-1	Acetone	5 - 10 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 67-63-0	Isopropyl alcohol	5 - 10 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 107-98-2	1-Methoxy-2-propanol	5 - 10 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	0.5 - 2.5 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.

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

4. First aid measures

General information:	Obtain special instructions before use. If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Do not allow victim to become chilled. Keep victim warm. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention. If victim is at risk of losing consciousness, position and transport on their side.

Following skin contact: Thoroughly wash skin with soap and water. Do not use solvents or thinners. Take off immediately all contaminated clothing and wash it before reuse. 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: Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Consult physician immediately. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

Information to physician

Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water spray jet, dry chemical powder, carbon dioxide.
In case of large fires: water spray jet or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Highly flammable liquid and vapor. 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.
Exposure to fire produces thick, black smoke that is hazardous to health.
In case of fire may be liberated: Nitrogen oxides, smoke, carbon dioxide, carbon monoxide.

Protective equipment and precautions for firefighters

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

Additional information:

Do not allow fire water to penetrate into surface or ground water. Heating will lead to pressure increase: danger of bursting and explosion. Use fine water spray to cool endangered containers.
Keep containers cool with water spray.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
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

Remove all sources of ignition. Keep unprotected people away. Wear appropriate protective equipment. Do not breathe mist/vapors/spray. Provide adequate ventilation. Avoid contact with the substance.
Take off immediately all contaminated clothing and wash it before reuse.
Cordon off downwind area at risk and warn inhabitants. Avoid exposure.

Environmental precautions:

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits. If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

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

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.
Special danger of slipping by leaking/spilling product.

7. Handling and storage

Precautions for safe handling

Advices on safe handling: Obtain special instructions before use. Provide adequate ventilation, and local exhaust as needed.
Avoid contact with skin and eyes. When using do not eat or drink.
Do not breathe mist/vapors/spray. Wash hands thoroughly after handling.
Take off immediately all contaminated clothing and wash it before reuse.
Guarantee sufficient ventilation during and after use, in order to prevent vapor accumulation.
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.
Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting equipment. 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 in a cool, well-ventilated place.
Keep container dry. Protect from heat and direct sunlight.

Hints on joint storage: Keep away from strong acids and bases as well as oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

Further details: Store containers carefully closed and upright to prevent any leaks.
Only trained personnel may be allowed to enter storage area.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
123-86-4	n-Butyl acetate	USA: ACGIH: STEL	150 ppm
		USA: ACGIH: TWA	50 ppm
		USA: IDLH: TWA	1,700 ppm
		USA: NIOSH: STEL	950 mg/m ³ ; 200 ppm
		USA: NIOSH: TWA	710 mg/m ³ ; 150 ppm
		USA: OSHA: TWA	710 mg/m ³ ; 150 ppm
141-78-6	Ethyl acetate	USA: ACGIH: TWA	1,440 mg/m ³ ; 400 ppm
		USA: IDLH: TWA	2,000 ppm [10% LEL]
		USA: NIOSH: TWA	1,400 mg/m ³ ; 400 ppm
		USA: OSHA: TWA	1,400 mg/m ³ ; 400 ppm
108-88-3	Toluene	USA: ACGIH: TWA	20 ppm
		USA: IDLH: TWA	500 ppm
		USA: NIOSH: STEL	560 mg/m ³ ; 150 ppm
		USA: NIOSH: TWA	375 mg/m ³ ; 100 ppm
		USA: OSHA: Ceiling	500 ppm
		USA: OSHA: STEL	300 ppm
67-64-1	Acetone	USA: OSHA: TWA	200 ppm
		USA: ACGIH: STEL	500 ppm
		USA: ACGIH: TWA	250 ppm
		USA: IDLH: TWA	2,500 ppm
		USA: NIOSH: TWA	590 mg/m ³ ; 250 ppm
67-63-0	Isopropyl alcohol	USA: OSHA: TWA	2,400 mg/m ³ ; 1,000 ppm
		USA: ACGIH: STEL	984 mg/m ³ ; 400 ppm
		USA: ACGIH: TWA	492 mg/m ³ ; 200 ppm
		USA: IDLH: TWA	2,000 ppm [10% LEL]
		USA: NIOSH: STEL	1,225 mg/m ³ ; 500 ppm
		USA: NIOSH: TWA	980 mg/m ³ ; 400 ppm
107-98-2	1-Methoxy-2-propanol	USA: OSHA: TWA	980 mg/m ³ ; 400 ppm
		USA: ACGIH: STEL	369 mg/m ³ ; 100 ppm
		USA: ACGIH: TWA	184 mg/m ³ ; 50 ppm
		USA: NIOSH: STEL	540 mg/m ³ ; 150 ppm
		USA: NIOSH: TWA	360 mg/m ³ ; 100 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
108-88-3	Toluene	USA:	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
		ACGIH-BEI, blood			
		USA:	0.03 mg/L	Toluene in urine	end of exposure or end of shift
		ACGIH-BEI, urine			
67-64-1	Acetone	USA:	0.3 mg/g	o-Cresol in urine	end of exposure or end of shift
		ACGIH-BEI, urine	creatinine		
		USA:	25 mg/L	acetone	end of exposure or end of shift
		ACGIH-BEI, urine			
67-63-0	Isopropyl alcohol	USA:	40 mg/L	Acetone in urine	end of shift at end of work week
		ACGIH-BEI, urine			

Appropriate engineering controls

Use only explosion-protected equipment/instruments. Explosion protection required.

Personal protection equipment (PPE)

Respiratory protection:	For short or minimal exposure: respiratory filter; in cases of longer exposure: supplied air respirator. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
Hand protection:	Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: Fluororubber (Viton) Unsuitable materials: Leather gloves/Protective gloves made of fabric. Breakthrough time: > 15 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:	Obtain special instructions before use. Keep away from sources of ignition - No smoking. When using do not eat or drink. Wash hands before breaks and after work. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

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

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:	type specific
Odor threshold:	No data available

Melting point/freezing point:	No data available
Initial boiling point and boiling range:	132.44 - 133.88 °F
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 1.20 Vol-% UEL (Upper Explosive Limit): 11.50 Vol-%
Flash point/flash point range:	-0.4 °F
Evaporation rate:	No data available
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 68 °F: 50 s (ISO 2431, 4mm)
Water solubility:	slightly miscible up to immiscible
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	at 68 °F: 97 hPa
Density:	at 68 °F: 0.94 g/mL
Vapor density:	No data available
Particle characteristics:	Not applicable

Additional information

Explosive properties:	Product is not explosive. Vapors may form explosive mixtures with air.
Ignition temperature:	518 °F
Solvent content:	75.5 %
Water content:	0.4 %

10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	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.
Incompatible materials:	Strong acid or bases as well as oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.

11. Toxicological information

Information on toxicological effects

Toxicological effects:

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

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: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

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: Reproductive toxicant - Category 2 = Suspected of damaging the unborn child.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) - Category 2 = May cause damage to organs through prolonged or repeated exposure.

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

Other information:

Information about Toluene:

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

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

LC50 Rat, inhalative: > 20 mg/L/4h

IARC - Classification code: group 3

OSHA - Carcinogenic: not listed ingredient

NTP - classification: not listed ingredient

Information about Isopropyl alcohol:

IARC - Classification code: group 3

OSHA - Carcinogenic: not listed ingredient

NTP - classification: not listed ingredient

Symptoms

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

Higher doses may lead to a narcotic effect.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
 Information about Naphtha (petroleum), hydrotreated light:
 Fish toxicity:
 LC50 Oncorhynchus mykiss: 8,41 mg/L/96h (OECD 203).
 Daphnia toxicity:
 EC50 Daphnia magna (Big water flea): 4,7 mg/L/48h (OECD 202).
 Algae toxicity:
 EC50 Pseudokirchneriella subcapitata (green algae): 12,4 mg/L/72h (OECD 201).

Persistence and degradability

Further details: No data available

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.
 Avoid spills and leaks. Very small amounts contaminates drinking water.

13. Disposal considerations

Waste treatment methods

Product

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

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.
 Handle empty containers with care. Incineration may cause explosion.

14. Transport information

UN number

DOT: UN1263
 IMDG, IATA-DGR: UN 1263

UN proper shipping name

DOT, IMDG, IATA-DGR: UN 1263, PAINT

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: 149, 367, 383, B52, B131, IB2, T4, TP1, TP8, TP28
Packaging – Exceptions: 150
Packaging – Non-bulk: 173
Packaging – Bulk: 242
Quantity limitations – Passenger aircraft / rail: 5 L
Quantity limitations – Cargo only: 60 L
Vessel stowage – Location: B

Sea transport (IMDG)

EmS: F-E, S-E
Special Provisions: 163 367
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, TP28
Stowage and handling: Category B.
Properties and observations: Miscibility with water depends upon the composition.
Marine pollutant: no
Segregation group: none
Remarks: UN1263, PAINT

Air transport (IATA)

Proper shipping name:	UN 1263, PAINT
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 A72 A192
Emergency Response Guide-Code (ERG):	3L
Remarks:	UN1263, PAINT

15. Regulatory information

National regulations - U.S. Federal Regulations

n-Butyl acetate:

TSCA Inventory: listed

Clean Water Act:

CWA Hazardous Substances: Category D; RQ 5000.0 lbs

Other Environmental Laws:

CERCLA: RQ 5000 lbs.

NIOSH Recommendations:

Occupational Health Guideline: 0072

Ethyl acetate:

TSCA Inventory: listed

Other Environmental Laws:

CERCLA: RQ 5000 lbs.

NIOSH Recommendations:

Occupational Health Guideline: 0260

Nitrocellulose <12,6% N:

TSCA Inventory: listed

OSHA Process Safety Management: Threshold 02500 lbs.

Toluene:

TSCA Inventory: listed

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

CWA Priority Pollutants: listed

Other Environmental Laws:

CERCLA: RQ 1000 lbs.

RCRA Hazardous Wastes: Waste Code U220

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: 0619

Acetone:

TSCA Inventory: listed

Clean Air Act:

CAA SOCM Chemical: yes

Other Environmental Laws:

CERCLA: RQ 5000 lbs.

RCRA Groundwater Monitoring: listed

NIOSH Recommendations:

Occupational Health Guideline: 0004*

Isopropyl alcohol:

TSCA Inventory: listed

Carcinogen Status: IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Other Environmental Laws:

SARA Title III, Section 313, Toxic Release: NPFAS;
De Minimis <=1.0 %; Thresholds 25000/10000 lbs

NIOSH Recommendations:

Occupational Health Guideline: 0359

1-Methoxy-2-propanol:

TSCA Inventory: listed

Clean Air Act:

CAA SOCM I Chemical: yes

NIOSH Recommendations:

Occupational Health Guideline: 0536

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics: TSCA Inventory: listed; UVCB

National regulations - U.S. State Regulations

n-Butyl acetate: New York Right-To-Know: listed

Ethyl acetate: New York Right-To-Know: listed

Toluene: California Proposition 65:
developmental

New York Right-To-Know: listed

Acetone: New York Right-To-Know: listed

Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labeling: Contains 25 - 50 % n-Butyl acetate, 10 - 25 % Ethyl acetate, 10 - 25 % Nitrocellulose <12,6% N, 10 - 25 % Toluene, 5 - 10 % Acetone, 5 - 10 % Isopropyl alcohol, 5 - 10 % 1-Methoxy-2-propanol, 0.5 - 2.5 % Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics. Contains Toluene, n-Butyl acetate and Ethyl acetate.

Revision date: 12/17/2025

Date of first version: 11/13/1995

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

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) - Chronic effects

Flammability: 3 (Serious)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor



HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0
		X

Abbreviations and acronyms:

Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
 AS/NZS: Australian Standards/New Zealand Standards
 Aspiration Toxicity: Aspiration toxicity
 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: 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
 Flammable Solid: Flammable solid
 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
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 Reproductive toxicant: Reproductive toxicity
 Skin Irritation: Skin irritation
 STOT RE: Specific target organ toxicity - repeated exposure
 STOT SE: Specific target organ toxicity - single exposure
 TRGS: Technical Rules for Hazardous Substances
 UN: United Nations
 vPvB: Very persistent and very bioaccumulative

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.