

1. Product and company identification

Product identifier

Trade name: 170Z5 - Loctite 638

Recommended use and restrictions on use

General use: Adhesive for orthopedic procedures.
Reserved for industrial and professional use.

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

WWW: www.ottobock.ca

E-mail: info.canada@ottobock.com

Telephone: (800) 665-3327

Telefax: (800) 463-3659

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 phone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Color: green

Odor: characteristic, irritant

Classification: Skin Irritation 2. Eye Damage 1. Sensitization - skin 1. Carcinogenicity 2.
Specific Target Organ Toxicity (Single Exposure) 3. Aquatic toxicity - chronic 3.

Hazard symbols:



Signal word: **Danger**

Hazard statements: Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
Suspected of causing cancer.
Harmful to aquatic life with long lasting effects.

Precautionary statements: Obtain special instructions before use.
Avoid breathing mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
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.
IF exposed or concerned: Get medical advice/attention.
Immediately call a POISON CENTER/doctor.
If skin irritation occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS in Canada.

Hazards not otherwise classified

Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Methacrylate-based adhesive.

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 7779-31-9	3,3,5-Trimethylcyclohexyl Methacrylate	10 - 20 %	not classified
CAS 868-77-9	2-Hydroxyethyl methacrylate	10 - 20 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1.
CAS 27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	< 5 %	Eye Irritation 2A. Sensitization - skin 1.
CAS 79-10-7	Acrylic acid	< 5 %	Flammable Liquid 3. Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Acute Toxicity 4 (inhalative). Skin Corrosion 1A. Specific Target Organ Toxicity (Single Exposure) 3. Aquatic toxicity - acute 1. Aquatic toxicity - chronic 2.
CAS 80-15-9	Cumene hydroperoxide	< 1 %	Organic Peroxide E. Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Acute Toxicity 3 (inhalative). Skin Corrosion 1B. Specific Target Organ Toxicity (Repeated Exposure) 2. Aquatic toxicity - chronic 2.
CAS 114-83-0	1-Acetyl-2-phenylhydrazine	< 1 %	Acute Toxicity 3 (oral). Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Carcinogenicity 2. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 110-16-7	Maleic acid	< 1 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 109-16-0	2,2'-Ethylenedioxydiethyl dimethacrylate	< 1 %	Sensitization - skin 1.
CAS 79-41-4	Methacrylic acid	< 1 %	Acute Toxicity 4 (oral). Acute Toxicity 3 (dermal). Acute Toxicity 4 (inhalative). Skin Corrosion 1A.

Additional information: Odour threshold: 0,1 ppm (acrylic acid).

4. First aid measures

General information:	First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing.
In case of inhalation:	Move victim to fresh air. Seek medical attention if problems persist.
Following skin contact:	Take off immediately all contaminated clothing and wash it before reuse. After contact with skin, wash immediately with soap and plenty of water. Subsequently consult 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 seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Consult physician.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

93.3 °C

Auto-ignition temperature: No data available

Suitable extinguishing media:

Carbon dioxide, extinguishing powder, foam.

Extinguishing media which must not be used for safety reasons:

full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: Sulphur oxides, nitrogen oxides (NOx), 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.

6. Accidental release measures

Personal precautions: Provide adequate ventilation. Avoid contact with skin and eyes. Avoid breathing mist/vapors/spray.

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

Keep away from sources of ignition - No smoking.

Environmental precautions:

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

Methods for clean-up:

Smaller amounts: Wash with generous amount of water and soap.

Large amounts: Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions. Special waste.

Clean contaminated area with soap and water. Provide adequate ventilation.

Additional information:

Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Avoid breathing mist/vapors/spray.

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

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Specific use(s)

Adhesive for orthopedic procedures.

Storage

Requirements for storerooms and containers:

Keep only in the original container. Do not return unused portions of product to original container.

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage:

Do not store together with oxidizing agents or strong acids.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
79-10-7	Acrylic acid	Canada: OEL 8 hour	5.9 mg/m ³ ; 2 ppm (may be absorbed through the skin)
		Canada: OEL TWA	2 ppm (may be absorbed through the skin)
		Canada: VEMP	5.9 mg/m ³ ; 2 ppm (may be absorbed through the skin)
		USA: ACGIH: TWA	5.9 mg/m ³ ; 2 ppm (may be absorbed through the skin)
		USA: NIOSH: TWA	6 mg/m ³ ; 2 ppm (may be absorbed through the skin)
79-41-4	Methacrylic acid	Canada: OEL 8 hour	70 mg/m ³ ; 20 ppm
		Canada: OEL TWA	20 ppm
		Canada: VEMP	70 mg/m ³ ; 20 ppm
		USA: ACGIH: TWA	70 mg/m ³ ; 20 ppm
		USA: NIOSH: TWA	70 mg/m ³ ; 20 ppm (may be absorbed through the skin)

Engineering controls

Provide local exhaust as close as possible to point of adhesion.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

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

Skin protection: Wear suitable protective clothing.

protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber - Layer thickness: 0.4 mm.

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

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

General hygiene considerations:

Use only in well-ventilated areas. Avoid breathing mist/vapors/spray.

When using do not eat, drink or smoke.

Keep away from food and drinks.

Avoid contact with skin and eyes. Take off immediately all contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When handling large quantities, supply emergency spray.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Color: green
Odor:	characteristic, irritant
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	93.3 °C
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	no data available
Vapor density:	No data available
Density:	1.1 g/mL
Solubility:	soluble in acetone
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Explosive properties:	no data available

10. Stability and reactivity

Reactivity: Refer to subsection "Possibility of hazardous reactions".

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:
Reacts with strong acids and strong oxidizing agents.

Conditions to avoid: No data available

Incompatible materials: keep away from strong acids and strong oxidizing agents.

Hazardous decomposition products:
Sulphur oxides, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

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

Serious eye damage/irritation: Eye Damage 1 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

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

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

Carcinogenicity: Carcinogenicity 2 = Suspected of causing cancer.

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): Based on available data, the classification criteria are not met. Information about 2,2'-Ethylenedioxydiethyl dimethacrylate:

Specific symptoms in animal studies, Rat, oral: NOAEL = 1,000 mg/kg/d (OECD 422, read across)

Information about 2-Hydroxyethyl methacrylate:

Specific symptoms in animal studies, Rat, oral: NOAEL = 100 mg/kg/d (OECD 422, read across)

Aspiration hazard: Lack of data.

Other information:

Information about 2-Hydroxyethyl methacrylate

Acute toxicity:

LD50 Rat, oral > 5,000 mg/kg

LD50 Rabbit, dermal > 5,000 mg/kg

Information about Cumene hydroperoxide:

Acute toxicity:

LD50 Rat, oral 550 mg/kg

LD50, dermal 1,200 - 1,520 mg/kg

Information about Methacrylic acid:

LD50 Rat, oral > 1,320 mg/kg (OECD 401, read across)

LD50 dermal 500 mg/kg (ATE)

LC50 Rat, inhalative (aerosol) 11 mg/L/4h (OECD 403, read across)

Information about Acrylic acid:

LD50 Rat, oral 1,500 mg/kg (BASF-test, read across)

LD50 Rabbit dermal > 2,000 mg/kg (OECD 402, read across)

LC50, inhalative (vapor) 11 mg/L (ATE)

Information about Maleic acid:

LD50 Rat, oral 708 mg/kg

LD50 Rabbit dermal 1,560 mg/kg

Information about 2,2'-Ethylenedioxydiethyl dimethacrylate

Acute toxicity:

LD50 Rat, oral 10,837 mg/kg

LD50 Mouse, dermal > 2,000 mg/kg

Symptoms

In case of inhalation:

Irritant. cough, shortness of breath, shortage of breath, cramp feeling in breast.

After contact with skin: Irritation and redness may occur.

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Cumene hydroperoxide:

Algae toxicity: Pseudokirchneriella subcapitata (green algae): ErC 3.1 mg/L/72h, OECD 201, read across

Daphnia toxicity: Daphnia magna (Big water flea) EC50: 18 mg/L/48h, OECD 202, read across

Fish toxicity: Oncorhynchus mykiss LC50: 3.9 mg/L/96h, OECD 203, read across

Acrylic acid:

Algae toxicity: Desmodesmus subspicatus (green algae): EC10 0.03 mg/L/72h, OECD 201, read across

Algae toxicity: Desmodesmus subspicatus (green algae): EC50 0.13 mg/L/72h, OECD 201, read across

Daphnia toxicity: Daphnia magna (Big water flea) NOEC: 19 mg/L/21d, EPA OTS 797.1330, read across

Fish toxicity: Oncorhynchus mykiss LC50: 27 mg/L/96h, EPA OTS 797.1400, read across

Bacterial toxicity: EC10: 41 mg/L/16h

Mobility in soil

No data available

Persistence and degradability

Further details: Product is not biodegradable.
 Acrylic acid:
 Biodegradation: 81% (OECD 301D, read across)
 Product is readily biodegradable.
 Biodegradation: aerobic, 100% (OECD 302 B, read across)
 Cumene hydroperoxide: Degradation: 0 %, OECD 301 B, read across

Additional ecological information

Volatile organic compounds (VOC):

max. 3 % by weight

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

13. Disposal considerations

Product

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

Package

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

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

No dangerous good in sense of this transport regulation.

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

Environmental hazards

Marine pollutant:

no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Proper shipping name: No dangerous good in sense of this transport regulation.

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: No dangerous good in sense of this transport regulation.

Sea transport (IMDG)

Proper shipping name: No dangerous good in sense of this transport regulation.

Marine pollutant: no

Air transport (IATA)

Proper shipping name: No dangerous good in sense of this transport regulation.

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - Canada

Cumene hydroperoxide: DSL: listed

1-Acetyl-2-phenylhydrazine: DSL: listed

Maleic acid: DSL: listed

2,2'-Ethylenedioxydiethyl dimethacrylate: DSL: listed

National regulations - U.S. Federal Regulations

3,3,5-Trimethylcyclohexyl Methacrylate:	TSCA Inventory: listed
2-Hydroxyethyl methacrylate:	TSCA Inventory: listed
Methacrylic acid, monoester with propane-1,2-diol:	TSCA Inventory: listed
Acrylic acid:	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
	Other Environmental Laws:
	CERCLA: RQ 5000 lbs.
	RCRA Hazardous Wastes: Code U008
	SARA Title III - Section 313, Toxic Release: Conc. 1.0%
	/ Threshold Standard
	NIOSH Recommendations:
	Occupational Health Guideline: 0013
Cumene hydroperoxide:	TSCA Inventory: listed
	Clean Air Act:
	CAA SOCM Chemical: yes
	Other Environmental Laws:
	CERCLA: RQ 10 lbs.
	RCRA Hazardous Wastes: Code U096
	SARA Title III - Section 313, Toxic Release: Conc. 1.0%
	/ Threshold Standard
	OSHA Process Safety Management: Threshold 5000 lbs.
1-Acetyl-2-phenylhydrazine:	TSCA Inventory: listed
Maleic acid:	TSCA Inventory: listed
	Clean Water Act:
	CWA Hazardous Substances: RQ 5000 lbs.
	Other Environmental Laws:
	CERCLA: RQ 5000 lbs.
2,2'-Ethylenedioxydiethyl dimethacrylate:	TSCA Inventory: listed
Methacrylic acid:	TSCA Inventory: listed
	Clean Air Act:
	CAA SOCM Chemical: yes
	NIOSH Recommendations:
	Occupational Health Guideline: 0386*

National regulations - U.S. State Regulations

Acrylic acid:	<p>California Proposition 65 code: -</p> <p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply</p> <p>Idaho Air Pollutant List: Title 585: AAC: 1.5 - EL: 2 - OEL: 30 - Title 586: -</p> <p>Maine Hazardous Air Pollutants: HAP: 200 lbs.</p> <p>Massachusetts Haz. Substance codes: 4,5,6 F8 F9</p> <p>Minnesota Haz. Substance: Codes: A - Ratings: 11.74 - Status: Air Pollutant Title III. TRI.</p> <p>New Jersey RTK Hazardous Substance: DOT: 2218 - Sub No.: 0023 - TPQ: -</p> <p>New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 10 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p> <p>Washington Air Contaminant: TWA: 10 ppm - 30 mg Skin: Protective measures should be taken to prevent or reduce skin absorption.</p>
Cumene hydroperoxide:	<p>California Proposition 65 code: -</p> <p>Delaware Air Quality Management List: DRQ: 10 - RQ State: Federal Regulations Apply</p> <p>Massachusetts Haz. Substance codes: 5,6 F8 F9</p> <p>New Jersey Extraordinarily Hazardous Substances: NJ Threshold: 2500 - NJ Group: I - NJ Table: I Part D - NJ Basis: NFPA 325</p> <p>New Jersey RTK Hazardous Substance: DOT: 2116 - Sub No.: 0543 - TPQ: -</p> <p>New York List of Hazardous Substances: RQ-Air: 10 - RQ-Land: 10 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p>
Maleic acid:	<p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply</p> <p>Massachusetts Haz. Substance codes: F8</p> <p>New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 100 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p>
Methacrylic acid:	<p>Idaho Air Pollutant List: Title 585 -- AAC: 3.5 -- EL: 4.67 -- WEL: 70 - Title 586 -</p> <p>Massachusetts Haz. Substance codes: 4,5,6</p> <p>Minnesota Haz. Substance: Codes: A -- Ratings: -</p> <p>Pennsylvania Haz. Substance code: -</p> <p>Washington Air Contaminant: TWA: 20 ppm - 70 mg Skin: Protective measures should be taken to prevent or reduce skin absorption.</p>

16. Other information

Text for labeling:

Contains 10 - 20 % 3,3,5-Trimethylcyclohexyl Methacrylate, 10 - 20 % 2-Hydroxyethyl methacrylate, < 5 % Methacrylic acid, monoester with propane-1,2-diol, < 5 % Acrylic acid, < 1 % Cumene hydroperoxide, < 1 % 1-Acetyl-2-phenylhydrazine, < 1 % Maleic acid, < 1 % 2,2'-Ethylenedioxydiethyl dimethacrylate, < 1 % Methacrylic acid. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)

Fire: 1 (Slight)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 3 (Serious) - Chronic effects

Flammability: 1 (Slight)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		1
		X

Abbreviations and acronyms:

Acute Toxicity: 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
 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
 BCF: Bioconcentration Factor
 Carcinogenicity: Carcinogenicity
 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
 EC50: Effective Concentration 50%
 EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
 EN: European Standard
 EQ: Excepted quantities
 Eye Damage: Eye damage
 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%
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 NOEC: No Observed Effect Concentration
 OECD: Organisation for Economic Co-operation and Development
 OEL: Occupational Exposure Limit Value
 Organic Peroxide: Organic peroxide
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
 Sensitization - skin: Skin sensitisation
 Skin Corrosion: Skin corrosion
 Skin Irritation: Skin irritation
 STOT RE: Specific target organ toxicity - repeated exposure
 STOT SE: Specific target organ toxicity - single exposure
 TLV: Threshold Limit Value
 TRGS: Technical Rules for Hazardous Substances
 vPvB: Very persistent and very bioaccumulative
 WEL: Workplace Exposure Limit
 WHMIS: Workplace Hazardous Materials Information System

Reason of change: General revision

Date of first version: 26/6/2017

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.