

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/29/2022 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE

Product code : CLM-10294-S

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Cambridge Isotope Laboratories, Inc.

50 Frontage Rd

01810

ANDOVER, MA, 01810

USA

T 1-800-322-1174

cilsales@isotope.com - www.isotope.com

1.4. Emergency telephone number

Emergency number : 1-703-741-5970

Chemtrec 1-800-424-9300 24 hours

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2 H225 Highly flammable liquid and vapor

Skin corrosion/irritation Category 2 H315 Causes skin irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. heat, hot surfaces, open flames, sparks

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P264 - Wash hands, forearms and face thoroughly after handling.

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P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P321 - Specific treatment (see Hazardous component(s) for labeling on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use Water spray, Alcohol resistant foam, Dry chemical, Carbon dioxide. to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
METHYL TERT-BUTYL ETHER UNLABELED	CAS-No.: 1634-04-4	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315
BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING-13C6, 99%) (95% CP)	CAS-No.: 6422-86-2	0.013	Not classified

Full text of hazard classes and H-statements; see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

First-aid measures after skin contact First-aid measures after eye contact

First-aid measures after ingestion

- : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
- When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
- Wash with plenty of soap and water. Get immediate medical advice/attention.
- Rinse cautiously with water for several minutes.
- Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product, central nervous system. Dizziness. Nausea. Vomiting. IF INHALED: Risk of pneumonia.

Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact

- May be harmful if inhaled. May cause respiratory irritation.
- Causes skin irritation.
- : May cause eye irritation.

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Symptoms/effects after ingestion : May be harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Use water spray to cool exposed surfaces.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Provide

adequate ventilation to minimize dust and/or vapor concentrations. Avoid dust formation. Evacuate area. Remove all sources of ignition. Special attention should be given to low

areas/pits where flammable vapors can accumulate.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect

it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. This material and its container must be disposed of in a safe

way, and as per local legislation.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust, fume, gas, mist, spray, vapors. Use

explosion-proof equipment. Keep away from sources of ignition - No smoking. Prevent the build-

up of electrostatic charge. Provide adequate ventilation to minimize dust and/or vapor

concentrations.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Storage conditions : Store at room temperature away from light and moisture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL C	144 mg/m³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
OSHA PEL C [ppm]	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	50 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL C	144 mg/m³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
OSHA PEL C [ppm]	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).	
BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING-13C6, 99%) (95% CP) (6422-86-2)		
No additional information available		

8.2. Appropriate engineering controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

Materials for protective clothing:

Wear suitable protective clothing and gloves

Hand protection:

Wear suitable protective clothing and gloves

Eye protection:

Wear eye protection. Chemical goggles or face shield with safety glasses

Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator

Personal protective equipment symbol(s):



Freezing point







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
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Boiling point : 55 - 56 °C (131 - 133 °F) - lit. Flash point : -33 °C (- 27.4 °F) - closed cup

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available

Vapor pressure : 1018.7 hPa (764.1 mmHg) at 55°C (131°F), 279.2 hPa (209.4 mmHg) at 20 °C (68°F)

: No data available

Relative vapor density at 20°C : No data available Relative density : No data available

Density : 0.74 g/ml at 25 $^{\circ}$ C (77 $^{\circ}$ F)

Molecular mass : 88.15 g/mol Solubility : Water: 42 g/l

Partition coefficient n-octanol/water (Log Pow)

Auto-ignition temperature : 374 °C (705.2 °F)
Decomposition temperature : No data available

Viscosity, kinematic : 0.464 mm²/s at 20 °C (68 °F) - 0.409 mm²/s at 40 °C (104 °F)

Viscosity, dynamic : No data available

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Explosion limits : 1.6 – 15.1 % (V)
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Oxidizing agent. Strong acids.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

,		
BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE		
LD50 oral rat	4000 mg/kg	
LC50 Inhalation - Rat [ppm]	23576 ppm/4h	
ATE US (oral)	4000 mg/kg body weight	
ATE US (gases)	23576 ppmV/4h	
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
LD50 oral rat	4000 mg/kg	
LC50 Inhalation - Rat [ppm]	23576 ppm/4h	
ATE US (oral)	4000 mg/kg body weight	

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BIS(2-ETHYLHEXYL) TEREPHTHALATE (RIN	IG-13C6, 99%) (95% CP) (6422-86-2)
LD50 oral rat	> 5000 mg/kg - male and female
LD50 dermal	- Guinea pig - > 19,680 mg/kg LD50 Intraperitoneal - Rat - male - > 3,200 mg/kg
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
BIS(2-ETHYLHEXYL) TEREPHTHALATE (95%	% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE
IARC group	2B - Possibly carcinogenic to humans
METHYL TERT-BUTYL ETHER UNLABELED	(1634-04-4)
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Viscosity, kinematic	0.464 mm²/s at 20 °C (68 °F) - 0.409 mm2/s at 40 °C (104 °F)
METHYL TERT-BUTYL ETHER UNLABELED	(1634-04-4)
Viscosity, kinematic	0.464 mm ² /s at 20 °C (68 °F) - 0.409 mm2/s at 40 °C (104 °F)
Potential Adverse human health effects and	This information is based on our current knowledge and is intended to describe the product for
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be
	construed as guaranteeing any specific property of the product. central nervous system.
	Dizziness. Nausea. Vomiting. IF INHALED: Risk of pneumonia.
Symptoms/effects after inhalation	May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	Causes skin irritation.
· ·	May cause eye irritation.
Symptoms/effects after ingestion	May be harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE		
LC50 - Fish [1]	672 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 - Crustacea [1]	472 mg/l Daphnia magna (Water flea) - 48 h	
EC50 - Other aquatic organisms [1]	491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h	
LC50 - Fish [2]	> 1000 mg/l other fish - 96 h	
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
LC50 - Fish [1]	672 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 - Crustacea [1]	472 mg/l Daphnia magna (Water flea) - 48 h	
EC50 - Other aquatic organisms [1]	491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h	
LC50 - Fish [2]	> 1000 mg/l other fish - 96 h	

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BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING-13C6, 99%) (95% CP) (6422-86-2)		
LC50 - Fish [1]	> 984 mg/l static test - Pimephales promelas (fathead minnow) - 96 h (OECD Test Guideline 203)	
EC50 - Crustacea [1]	Immobilization EC50 - Daphnia magna (Water flea) - 0.0014 mg/l - 48 h (OECD Test Guideline 202)	
EC50 - Other aquatic organisms [1]	Growth inhibition EC50 - Selenastrum capricornutum (green algae) - > 0.86 mg/l - 72 h (OECD Test Guideline 201)	
EC50 - Other aquatic organisms [2]	Respiration inhibition EC50 - Sludge Treatment - > 10 mg/l - 3 h (OECD Test Guideline 209)	

12.2. Persistence and degradability

BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE		
Persistence and degradability	Not readily biodegradable. (OECD 301D method).	
Biodegradation	0 %	
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
Persistence and degradability	Not readily biodegradable. (OECD 301D method).	
Biodegradation	0 %	
BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING-13C6, 99%) (95% CP) (6422-86-2)		
Biodegradation	Biodegradability - aerobic - Exposure time 28 d Result: 73.05 % - Readily biodegradable. (OECD Test Guideline 301B)	

12.3. Bioaccumulative potential

BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE		
Partition coefficient n-octanol/water (Log Pow) 1.06		
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
Partition coefficient n-octanol/water (Log Pow) 1.06		

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.

Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

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SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No : UN2398
UN-No. (TDG) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Methyl tert-butyl ether
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3 Hazard labels (DOT) : 3



TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : II

Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Not classified as dangerous in the meaning of transport regulations

DOT

UN-No.(DOT) : UN2398

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DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

DOT Vessel Stowage Location

: E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from

passengers, or one passenger per each 3 m of overall vessel length, but is prohibited froi carriage on passenger vessels in which the limiting number of passengers is exceeded.

TDG

Emergency Response Guide (ERG) Number : 127

IMDG

No data available

IATA

No data available

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

: 60 L

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
METHYL TERT-BUTYL ETHER UNLABELED	1634-04-4	Not present	-	
BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING-13C6, 99%) (95% CP)	6422-86-2	Not present	-	

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.	

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METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	

BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING-13C6, 99%) (95% CP) (6422-86-2)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	

15.2. International regulations

CANADA

BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE

Listed on the Canadian DSL (Domestic Substances List)

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)

Listed on the Canadian DSL (Domestic Substances List)

BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING-13C6, 99%) (95% CP) (6422-86-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

BIS(2-ETHYLHEXYL) TEREPHTHALATE (95% CP) (RING-13C6, 99%) 100 UG/ML IN MTBE	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

Component	State or local regulations
METHYL TERT-BUTYL ETHER UNLABELED(1634-04-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
BIS(2-ETHYLHEXYL) TEREPHTHALATE (RING- 13C6, 99%) (95% CP)(6422-86-2)	U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases	
H225	Highly flammable liquid and vapor
H315	Causes skin irritation

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.