



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

BENZYL BENZOATE EXTRA PURE

SECTION 1: Identification of the substance/mixture

1.1. Product identifier

Product form

Trade name : BENZYL BENZOATE EXTRA PURE

EC Index-No. : 607-085-00-9

EC-No. : 204-402-9

CAS-No. : 120-51-4

Type of product

Formula : C₁₄H₁₂O₂

Chemical structure

Synonyms

: Substance

: Esters

: Benzyl benzenecarboxylate, Phenylmethyl benzoate

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

Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4

Hazardous to the aquatic environment – Chronic Hazard,

Category 2

Full text of H- and EUH-statements: see section 16

H302

H411

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word (CLP)

:

GHS07

: Warning

GHS09

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Hazard statements (CLP)

Precautionary statements (CLP)

2.3. Other hazards

: H302 - Harmful if swallowed.

H411 - Toxic to aquatic life with long lasting effects.

: P264 - Wash hands and forearms thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P391 - Collect spillage.

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

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

Name

: Mono-constituent

Product identifier

%

BENZYL BENZOATE

CAS-No.: 120-51-4

EC-No.: 204-402-9

EC Index-No.: 607-085-00-9

SECTION 4: First aid measures

100

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

First-aid measures for first aider

: Call a poison center or a doctor if you feel unwell.

: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a

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doctor if you feel unwell.

: First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Symptoms/effects after ingestion

: None under normal conditions.

: None under normal conditions.

: None under normal conditions.

: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water spray. Dry powder. Foam. Carbon dioxide.

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard

Explosion hazard

Hazardous decomposition products in case of fire

5.3. Advice for firefighters

: No fire hazard.

: No direct explosion hazard.

: Toxic fumes may be released.

Firefighting instructions

Protection during firefighting

: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

For non-emergency personnel

Protective equipment

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Emergency procedures

For emergency responders

Protective equipment

Emergency procedures

6.2. Environmental precautions

: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

: Wear recommended personal protective equipment.

: Ventilate spillage area. Evacuate unnecessary personnel.

Avoid release to the environment. Toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

For containment

Methods for cleaning up

Other information

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

Hygiene measures

Technical measures

Storage conditions

: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

: Evacuate unnecessary personnel. Stop leak if safe to do so.

: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

: Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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

: Not expected to present a significant hazard under anticipated conditions of normal use.

: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.

: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

: Keep in a cool, well-ventilated place away from heat.

: Store in original container. Keep container tightly closed. Store in a dry place.

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Packaging materials

: Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):

Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Skin protection

Skin and body protection:

Wear a mask

Hand protection:

Protective gloves

Respiratory protection

Respiratory protection:

Wear appropriate mask

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Colour

Appearance

Molecular mass

Odour

Odour threshold

Melting point

Freezing point

Boiling point

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Flammability

Lower explosion limit

Upper explosion limit

Flash point

Auto-ignition temperature

: Liquid

: Colourless.

: Clear oily liquid. Low melting solid.

: 212.25 g/mol

: faint aromatic odor.

: Not available

: Not applicable

: 17 – 20 °C

: 323 – 324 °C

: Non flammable.

: Not available

: Not available

: 148 °C

: 480 °C

Decomposition temperature : Not available

pH : Not available

Viscosity, kinematic : 7.417 mm²/s

Viscosity, dynamic : 8.292 cP at 25 °C

Solubility : Water: Immiscible with water

Ethanol: Miscible with Ethanol

Ether: Miscible with Ether

Acetone: Miscible with Acetone

Partition coefficient n-octanol/water (Log Kow) : Not available

Partition coefficient n-octanol/water (Log Pow) : 4

Vapour pressure : 0.000224 mm Hg at 25 °C

Vapour pressure at 50°C : Not available

Density : 1.118 g/cm³ at 25 °C

Relative density : Not available

Relative vapour density at 20°C : 7.31 (Air = 1)

Particle characteristics : Not applicable

9.2. Other information

Other safety characteristics

Refractive index : 1.568 – 1.57 (20 °C, 589 nm)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

BENZYL BENZOATE EXTRA PURE

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Aspiration hazard

: Not classified

BENZYL BENZOATE EXTRA PURE (120-51-4)

Viscosity, kinematic

7.417 mm²/s

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11.2. Information on other hazards

Other information

Potential adverse human health effects and symptoms

SECTION 12: Ecological information

: Harmful if swallowed.

12.1. Toxicity

Ecology - general

Ecology - water

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

12.2. Persistence and degradability

: Toxic to aquatic life with long lasting effects.

: Toxic to aquatic life with long lasting effects.

: Not classified

: Toxic to aquatic life with long lasting effects.

BENZYL BENZOATE EXTRA PURE (120-51-4)

Persistence and degradability

Rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

SECTION 14: Transport information

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- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.
- : Do not re-use empty containers.

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : UN 3082

UN-No. (IMDG) : UN 3082

UN-No. (IATA) : UN 3082

UN-No. (ADN) : UN 3082

UN-No. (RID) : UN 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport document description (ADR) (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE), 9, III, (-)

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE), 9, III

Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9

Danger labels (ADR) : 9

:

IMDG

Transport hazard class(es) (IMDG) : 9

Danger labels (IMDG) : 9

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:

IATA

Transport hazard class(es) (IATA) : 9

Danger labels (IATA) : 9

:

ADN

Transport hazard class(es) (ADN) : 9

Danger labels (ADN) : 9

:

RID

Transport hazard class(es) (RID) : 9

Danger labels (RID) : 9

14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions

(ADR)

: TP1, TP29

Tank code (ADR) : LGBV

Vehicle for tank carriage : AT

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Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading
and handling (ADR)
: CV13
Hazard identification number (Kemler No.) : 90
Orange plates :

Tunnel restriction code (ADR) : -
EAC code : •3Z

Transport by sea
Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG

BENZYL BENZOATE EXTRA PURE

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

PCA packing instructions (IATA)

PCA max net quantity (IATA)

CAO packing instructions (IATA)

CAO max net quantity (IATA)

Special provisions (IATA)

ERG code (IATA)

Inland waterway transport

Classification code (ADN)

Special provisions (ADN)

Limited quantities (ADN)

Excepted quantities (ADN)

Carriage permitted (ADN)

Equipment required (ADN)

Ultra Pure-Lab Chem Industries

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Number of blue cones/lights (ADN)

Rail transport

Classification code (RID)

Special provisions (RID)

Limited quantities (RID)

Excepted quantities (RID)

Packing instructions (RID)

Special packing provisions (RID)

Mixed packing provisions (RID)

Portable tank and bulk container instructions (RID)

Portable tank and bulk container special provisions (RID)

Tank codes for RID tanks (RID)

Transport category (RID)

Special provisions for carriage – Packages (RID)

Special provisions for carriage - Loading, unloading and handling (RID)

Colis express (express parcels) (RID)

Hazard identification number (RID)

: 964

: 450L

: 964

: 450L

: A97, A158, A197, A215

: 9L

: M6

: 274, 335, 375, 601

: 5 L

: E1

: T

: PP

: 0

: M6

: 274, 335, 375, 601

: 5L

: E1

: P001, IBC03, LP01, R001

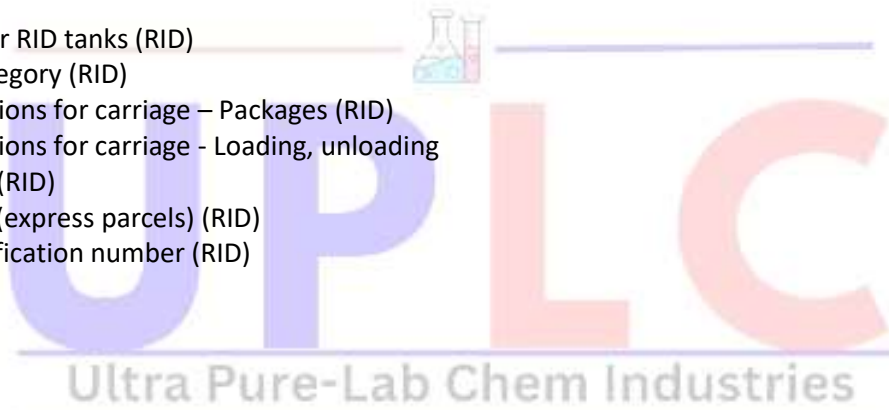
: PP1

: MP19

: T4

: TP1, TP29

: LGBV





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: 3

: W12

: CW13, CW31

: CE8

: 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code

3(b)

3(c)

Applicable on

BENZYL BENZOATE EXTRA PURE

BENZYL BENZOATE EXTRA PURE

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Germany

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VOC ordinance (ChemVOCFarbV)

Water hazard class (WGK)

Hazardous Incident Ordinance (12. BlmSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen – Borstvoeding

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling

Denmark

Danish National Regulations

15.2. Chemical safety assessment

:

: WGK 3, Highly hazardous to water (Classification according to AwSV).

: Is not subject to the Hazardous Incident Ordinance (12. BlmSchV)

: The substance is not listed

: The substance is not listed

: The substance is not listed

: The substance is not listed

: The substance is not listed

: Young people below the age of 18 years are not allowed to use the product

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ACGIH

ADN

ADR

ATE

BCF

BLV

BOD

CAS-No.

CLP

American Conference of Government Industrial Hygienists

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

European Agreement concerning the International Carriage of Dangerous Goods by Road

Acute Toxicity Estimate

Bioconcentration factor

Biological limit value

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ISO 9001 Quality System Certified Organization

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Biochemical oxygen demand (BOD)
Chemical Abstract Service number
Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD
CSA
DMEL
DNEL
Chemical oxygen demand (COD)
Chemical safety assessment
Derived Minimal Effect level
Derived-No Effect Level
Abbreviations and acronyms:
EC-No. European Community number
EC50 Median effective concentration
ED Endocrine disruptor
EN European Standard
EWC European waste catalogue
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
LC50 Median lethal concentration
LD50 Median lethal dose
LOAEL Lowest Observed Adverse Effect Level
Log Kow Partition coefficient n-octanol/water (Log Kow)
Log Pow Partition coefficient n-octanol/water (Log Pow)
MAK maximum workplace concentration
NOAEC No-Observed Adverse Effect Concentration
NOAEL No-Observed Adverse Effect Level
NOEC No-Observed Effect Concentration
N.O.S. Not Otherwise Specified
OECD Organisation for Economic Co-operation and Development
OEL Occupational Exposure Limit
OSHA Occupational Safety & Health Administration
PBT Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration
PPE Personal protection equipment
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS Safety Data Sheet
STP Sewage treatment plant
TF Technical function
ThOD Theoretical oxygen demand (ThOD)
TLM Median Tolerance Limit

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TWA Time Weighted Average
VOC Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative
UFI Unique Formula Identifier

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4

Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic Hazard, Category 2

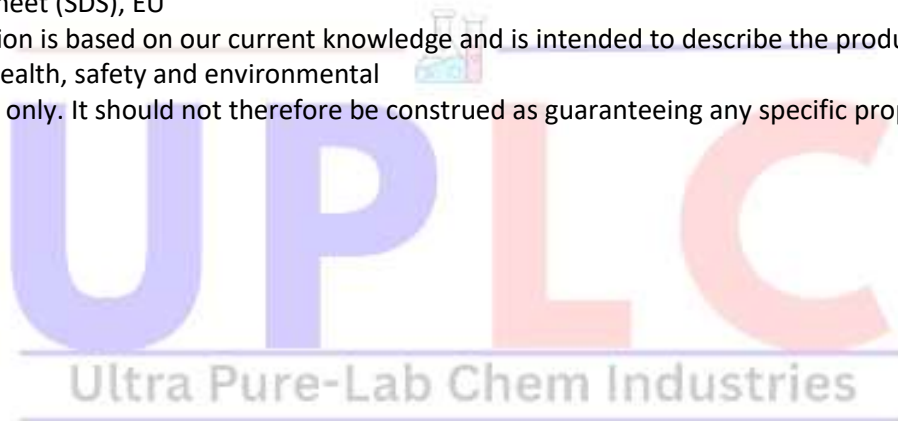
H302 Harmful if swallowed.

H411

Toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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.



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