

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 **Revision date: 10/02/2018** 

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Butyraldoxime Product name: B0753 Product code:

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Category 3 Flammable liquids Acute toxicity (Oral) Category 4 Acute toxicity (Dermal) Category 3 Serious eye damage/eye irritation Category 2

2.2 Label elements

Pictograms or hazard symbols





Signal word Danger

H226-Flammable liquid and vapour. **Hazard statements** 

H302-Harmful if swallowed. H311-Toxic in contact with skin. H319-Causes serious eye irritation.

**Precautionary statements** P210-Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P270-Do not eat, drink or smoke when using this product. P280-Wear protective gloves, protective clothing, eye protection.

P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before

P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice

P370+P378-In case of fire: Use dry chemical or dry sand to extinguish.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable Not applicable vPvB:

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# SECTION 3: Composition/information on ingredients

3.1 Substances

 Components:
 Butyraldoxime

 Percent:
 >95.0%(GC)

 CAS RN:
 110-69-0

 EC-No:
 203-792-8

Synonyms: Butyraldehyde Oxime

Chemical Formula: C<sub>4</sub>H<sub>9</sub>NO

# SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

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

No data available

#### SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media: Water (It may scatter and spread fire.)

5.2 Special hazards arising from the

substance or mixture

Explosion risk in case of fire. Fight fire remotely due to the risk of explosion.

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

**5.3 Advice for firefighters** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if

safe to do so. When extinguishing fire, be sure to wear personal protective equipment

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc

**6.2 Environmental precautions** Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and

explosion-proof equipment.

**6.4 Reference to other sections** For disposal see section 13.

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## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Be sure not to give the container unexpected impacts, such as falling down or falling off. Store away from incompatible materials such as oxidizing agents.

No further relevant information available.

# SECTION 8: Exposure controls/personal protection

8.1 Control parameters No data available

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Form: Clear

Colorless - Very pale yellow

Odour: No data available pH: No data available Melting point/freezing point: No data available

**Boiling point/range:** 152°C **Flash point:** 58°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available
Upper: No data available
Vapour pressure: No data available.
Vapour density: No data available

Relative density: 0.91

Solubility(ies):

[Water] No data available [Other solvents] No data available Partition coefficient: No data available

n-octanol/water:

Autoignition temperature: No data available
Decomposition temperature: No data available
Dynamic Viscosity: No data available
Kinematic viscosity: No data available

**9.2 Other safety information** No data available

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## SECTION 10: Stability and reactivity

10.1 Reactivity No data available

**10.2 Chemical stability** Stable under proper conditions.

10.3 Possibility of hazardous reactions May explosively decompose on heating, shock, friction, etc.

**10.4 Conditions to avoid** Heat, Spark, Open flame, Static discharge, Shock, Friction

10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

Acute Toxicity: ipr-mus LD50:200 mg/kg
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: ES3500000

#### SECTION 12: Ecological information

#### 12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability No data available

**12.3 Bioaccumulative potential** No data available

12.4 Mobility in soil

Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law (PaM ³/mol): No data available

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other adverse effects No data available

# SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

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## SECTION 14: Transport information

**14.1 UN number** 2840

14.2 UN proper shipping name

ADR/RID Butyraldoxime
IMDG/IMO Butyraldoxime
ICAO/IATA Butyraldoxime

14.3 Transport hazard class(es)

ADR/RID 3: Flammable liquid IMDG/IMO 3: Flammable liquid ICAO/IATA 3: Flammable liquid

14.4 Packaging group

ADR/RID III
IMDG/IMO III
ICAO/IATA III

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

# SECTION 15: Regulatory information

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

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/02/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet** 

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