

Safety Data Sheet

According to Regulation (EC) No 1907/2006

1, 6-Hexanediol

Version 1.0

Issue date: 09/08/2018

Revision date: 09/08/2018

SDS Record Number: CSSS-TCO-010-124909

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: 1, 6-Hexanediol
Additional identification: Not available
Identification of the product: CAS# 629-11-8; EC# 211-074-0
Index Number: Not available
REACH registration No.: 01-2119449814-31-0007

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Produce polyurethane, plasticizer.

1.2.2 Uses advised against:

Not available

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer): ZHEJIANG BOADGE CHEMICAL CO., LTD
Address: NO.19 Tongji Road Shuige industrial zone, Lishui city Zhejiang, China
Contact person(E-mail): Alina(alina_xia@boadge.com)
Telephone: +86-578-2134101
Fax: +86-578-2126428

1.4 Emergency telephone Number:

+353 41 6871874

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
N/A	N/A

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms: No hazard pictogram is used.
Signal Word(S): No signal word is used.
Hazard Statement: Not applicable.
Precautionary statement: Not applicable.

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
1, 6-Hexanediol	01-2119449814-31-0007	629-11-8	211-074-0	≥99.5%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Keep patient calm, remove to fresh air. Get medical aid if necessary.

4.1.2 In case of skin contact:

Wash thoroughly with soap and water.

4.1.3 In case of eyes contact:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

4.1.4 In case of ingestion:

Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray, dry powder, alcohol-resistant foam, carbon dioxide.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides, carbon oxides can be released in case of fire.

5.3 Advice for firefighters:

Wear a self-contained breathing apparatus.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Handle in accordance with good industrial hygiene and safety practice.

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

Discharge into the environment must be avoided.

6.3 Methods for Containment and Cleaning up:

For small amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations. For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Ensure thorough ventilation of stores and work areas. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Avoid whirling up the material/product because of the danger of dust explosion.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container dry. Storage temperature: 20 °C.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Not available.

8.1.2 Additional exposure limits under the conditions of use:

Not available.

8.1.3 DNEL/DMEL and PNEC-Values:

PNEC aqua (freshwater): 0.5 mg/L
PNEC aqua (marine water): 0.05 mg/L
PNEC STP: 8 400 mg/L
PNEC sediment (freshwater): 1.05 mg/kg sediment dw
PNEC sediment (marine water): 0.105 mg/kg sediment dw
PNEC soil: 0.076 mg/kg soil dw
Workers - Hazard via inhalation route
Systemic effects-Long term exposure
DNEL (Derived No Effect Level): 35 mg/m³
Workers - Hazard via dermal route
Systemic effects-Long term exposure
DNEL (Derived No Effect Level): 10 mg/kg bw/day
General Population - Hazard via inhalation route
Systemic effects-Long term exposure
DNEL (Derived No Effect Level): 8.7 mg/m³
General Population - Hazard via dermal route
Systemic effects-Long term exposure
DNEL (Derived No Effect Level): 5 mg/kg bw/day
General Population - Hazard via oral route
Systemic effects-Long term exposure
DNEL (Derived No Effect Level): 5 mg/kg bw/day
Systemic effects-Acute/short term exposure
DNEL (Derived No Effect Level): 21 mg/kg bw/day

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166).

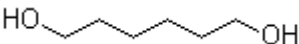
Hand protection:

Chemical resistant protective gloves (EN 374). Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480

Body protection:	minutes of permeation time according to EN 374):e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
Respiratory protection:	Dust mask is required when dusts are generated.
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Solid (crystalline)
Colour:	Colorless
Odour:	Not available
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	39.5 - 42.1 °C
Boiling point/range (°C):	250 °C
Flash point (°C):	101°C (1013.25hPa)
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not easily ignitable / combustible
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (25°C):	0.001 hPa
Vapour density:	Not available
Density:	0.96 g/cm ³ (20 °C)
Bulk density (kg/m³):	Not available
Water solubility (g/l):	1 000 g/L (20 °C)
n-Octanol/Water (log Po/w):	log Pow: 0 (25 °C)
Auto-ignition temperature:	320°C (1013.25hPa)
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	61mPa s(43.0°C)
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	C ₆ H ₁₄ O ₂
Molecular Weight:	118.17
Molecular Structure	

9.2. Other information:

Fat solubility(solvent– oil to be specified)	Not available
etc:	
Surface tension:	Not available

Dissociation constant in water(pKa): Not available

Section 10 Stability and reactivity

- 10.1 Reactivity:** The substance is stable under normal storage and handling conditions.
- 10.2 Chemical stability:** Stable at room temperature in closed containers under normal storage and handling conditions.
- 10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- 10.4 Conditions to avoid:** Incompatible materials. Avoid heat.
- 10.5 Incompatible materials:** Strong bases, strong acids.
- 10.6 Hazardous decomposition products:** Nitrogen oxides, carbon oxides.

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): ca. 3 000 mg/kg bw

LD50(Dermal, Rabbit): > 2 500 mg/kg bw

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Section 12 Ecological information

12.1 Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability: Readily biodegradable.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: log Koc:0

12.5 Results of PBT&vPvB assessment: The substance is not PBT / vPvB.

12.6 Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
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UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment has been carried out? YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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