	MATERIAL SAFETY DATA SHEET	MSDS No.	M-01
	1,6 – Hexanediol	Effective From	01/03/2022

1. Product and company identification

Product Name : 1, 6-Hexanediol

Supplier(Only representative): Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer): Bloomchemag BV
Address: Sint-Antoniusstraat 16 b1, B-2400, Mol, Belgium
Contact person(E-mail): info@bloomchemag.com
Telephone: +91 72919 74484 / 72919 74050
Identification of the product: CAS# 629-11-8 EC#211-074-0
REACH registration No.: 01-2119449814-31-****

2. Composition/information on ingredients

Cas No.	Chemical Name	Percent
629-11-8	1,6-Hexanediol	≥99.5%

3. Hazards identification

Appearance: Almost white solid.

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.


Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

4. First aid measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

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Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5. Fire-fighting measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

6. Accidental release measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, and then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. Handling and storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.


Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure controls/personal protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

ACGIH: None listed

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NIOSH: None listed

OSHA-Final PELs: None listed

OSHA Vacated PELs: 1, 6-Hexanediol: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. Physical and chemical properties

Physical State: Solid

Appearance: almost white

Odor: Odorless

pH: Not available.

Vapor Pressure: Approximately 6.5 mbar @126°C(258.8°F)

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Approximately 59.3 mPa.s @40°C(104°F)

Boiling Point/Range: Approximately 245°C(473°F).

Freezing/Melting Point: 41.00 - 43.00 °C(105.8°F).

Flash Point: Approximately 140°C(284°F).

Decomposition Temperature: Not available.

Solubility in Water: Miscible.

Specific Gravity/Density: Approximately 0.95@50°C(122°F)

Molecular Formula: C₆H₁₄O₂

Molecular Weight: 118.18

10. Stability and reactivity

Chemical Stability: Stable under normal temperatures and pressures.


Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials: Oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. Toxicological information

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RTECS#:

CAS# 629-11-8: MO2100000

LD50/LC50:

CAS# 629-11-8:

- Draize test, rabbit, eye: 100 mg;
- Draize test, rabbit, eye: 500 mg/24H Mild;
- Draize test, rabbit, skin: 500 mg/24H Mild;
- Oral, mouse: LD50 = 2400 mg/kg;
- Oral, rat: LD50 = 3730 mg/kg;
- Oral, rat: LD50 = 3700 mg/kg;
- Skin, rabbit: LD50 = >10 gm/kg;

Carcinogenicity:

CAS# 629-11-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

Other Studies:

12. Ecological information

Ecological Data for 1, 6-Hexanediol

Biodegradation Aerobic, >

90%, Exposure time: 7 Days **Biological**

Oxygen Demand (BOD) 5 Days,

1,312mg/g

Chemical Oxygen Demand (COD)

2,180mg/g

Theoretical Biological Oxygen Demand (ThBOD)

0.6mg/g

Bioaccumulation


Approximately 0.5 BCF

13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

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14. Transport information

DOT (US)

Not regulated as a hazardous material

Canada TDG

No information available

15. Regulatory information

US FEDERAL

TSCA

CAS# 629-11-8 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 629-11-8: immediate.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.


STATE

CAS# 629-11-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

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Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

WGK (Water Danger/Protection)

CAS# 629-11-8: 0

Canada - DSL/NDSL

CAS# 629-11-8 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Yuanli Chemical Group Co.,Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Yuanli Chemical Group Co.,Ltd. has been advised of the possibility of such damages.