

SAFETY DATA SHEET

HEXYLENE GLYCOL

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

1.1 Product identifier:	
CAS Number:	107-41-5
EC number:	203-905-0
1.2 SYNONYMS:	2-Methyl-2,4-pentanediol 1,2-Hexanediol 2-Hydroxy-2-methylpentan-3-ol 2,4-Dimethyl-2-pentanol

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Eye Irritation category 2: Causes serious eye irritation. Skin Irritation category 2: May cause skin irritation.
Hazard Pictograms:	
Signal Word:	Warning
Hazard statements:	H303: May be harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H361d: Suspected of damaging the unborn child
Precautionary Statements:	
General:	None
Prevention:	P203: Obtain, read and follow all safety instructions before use. P264: Wash skin thoroughly after handling. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:	P301 + P332 + P317: IF SWALLOWED or if skin irritation occurs: Get medical help. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P318: IF exposed or concerned, get medical advice. P337 + P317: If eye irritation persists: Get medical help
Storage:	P405: Store locked up.
Disposal:	P501: Dispose of contents/ container to an approved waste disposal plant
2.3 Other hazards:	
Inhalation:	May cause irritation to the respiratory tract, leading to coughing throat irritation, and shortness of breath.
Ingestion:	May cause abdominal cramps, nausea, vomiting, diarrhea
Skin Contact:	Prolonged or repeated skin contact may cause irritation, leading to symptoms such as redness, itching, and dryness.
Eye contact:	May cause irritation, redness, pain and burning sensation.
Chronic Exposure:	Irritation of eyes, skin and mucous membranes
Aggravation of pre-existing conditions	Persons with pre-existing disorders, may develop respiratory, skin and neurological effects because of the substance

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 107-41-5 HEXYLENE GLYCOL

Identification number(s):	EC number: 203-905-0
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SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	Move to fresh air in case of accidental inhalation of vapours or decomposition products. Keep at rest. Get immediate medical advice/attention.
After skin contact:	Take off contaminated clothing and shoes immediately. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). Consult a physician if necessary.
After eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a physician
After swallowing:	Do NOT induce vomiting. Rinse mouth with water. Obtain medical attention.
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	Notes to physician - Treat symptomatically. There is no specific antidote available

SECTION 5: Firefighting measures

5.1 Extinguishing media	Water spray, foam, CO2, dry chemical powder, sandy soil. In case of fire in the surroundings: water in large amounts, water
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	spray. In case of fire: keep drums, etc., cool by spraying with water. NO direct contact of the substance with water
5.2 Special hazards arising from the substance or mixture	Highly combustible, can get mix with air and cause environmental problems, Heating increases the inner pressure of the bottle, risk of explosion.
5.3 Advice for firefighters	Wear fully protective suit, safety glasses and respiratory device .
5.4 further information	Cool containers/tanks with water spray

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Mark the contaminated area with signs and prevent access to unauthorized personnel. Avoid contact with the skin and the eyes. Keep away from flames and sparks. Do not breathe vapour. Use personal protective equipment. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid
6.2 Environmental precautions:	Dam up. Prevent product from entering sewage system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and material for containment and cleaning up:	
Recovery:	Collect spillage and transfer to properly labelled containers
Neutralization:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a

	container for disposal according to local / national regulations
Decontamination/cleaning:	Collect spillage. Pick up contaminated soil. Clean contaminated floors and objects thoroughly while observing environmental regulations. Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal. Non sparking tools to be used.
Disposal:	Dispose of contents/ container to an approved incineration plant.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Earth the equipment. Ground/bond container and receiving equipment. No smoking. Take measures to prevent the build up of electrostatic charge.
	Provide adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Electrical installations / working materials must comply with the technological safety standards. Handle in accordance with good industrial hygiene and safety practice. - Provide adequate ventilation. Wear personal protective equipment. Avoid inhalation, ingestion and contact with skin and eyes
Information about fire - and explosion protection:	Ensure that eyewash stations and safety showers are close to the workstation location. Use clean, well-maintained personal protection equipment
7.2 Conditions for safe storage, including any incompatibilities	The floor of the depot should be impermeable and designed to form a water-tight basin. To prevent leaks or spillages from spreading, provide a suitable liquid retention system. Electrical installations / working materials must

	comply with the technological safety standards.
Requirements to be met by storerooms and receptacles:	Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls	
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Wear appropriate chemical resistant gloves.
	Eye protection: Required
Protection of Body:	Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid at 20°C
Colour:	Colourless
Odour:	Sweet
pH-value:	6.9-7.0
Melting point/Melting range:	50°C
Boiling point/Boiling range:	197°C

Flammability (solid, gaseous):	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Self-igniting:	306°C
Danger of explosion:	Very high when open.
Explosion limits: Lower:	1.1% by volume in air.(approx.)
Explosion limits: Upper:	10.0% by volume in air.(approx.)
Vapour pressure:	0.067 hPa
Density at 20 °C:	0.921-0.924g/cm ³
Relative density:	0.923
Vapour density:	4.1
Evaporation rate:	< 0.01
Solubility in / Miscibility with- water at 20 °C:	Completely Miscible
Partition coefficient:(n- octanol/water)	< 1
Viscosity:	Dynamic: 34mPa.s (20°C)

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	generally stable under normal conditions of use and storage.
10.3 Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4 Conditions to avoid	Heat, flames, sparks, moisture, temperatures above 75°C, direct sunlight
10.5 Incompatible materials:	Strong oxidizing agents Strong reducing agents Acid chlorides and anhydrides Strong acids.
10.6 Hazardous decomposition products	Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 : > 2,000 mg/kg - Rat , male and female

	Method: OECD Test Guideline 420 Not classified as hazardous for acute oral toxicity according to GHS. No mortality observed at this dose. LD50: 4,700 mg/kg - Rat , male Method: OECD Test Guideline 401
Skin corrosion/Irritation:	Irritating to skin. Method: Draize Test
Serious eye damage/irritation:	slight irritation
Respiratory damage/irritation:	Maximisation Test - Guinea pig Responding animals in GPMT < 30% Method: OECD Test Guideline 406
Ingestion:	can cause gastrointestinal irritation, including nausea, vomiting, and abdominal pain, with potential central nervous system effects at higher doses,
11.2 Additional toxicological information	
Aquatic Toxicity:	low aquatic toxicity, but it can still pose risks to aquatic organisms in high concentrations or with prolonged exposure
Biodegradability:	moderately biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	low aquatic toxicity
12.2 Persistence and degradability:	moderate persistence in the environment
12.3 Bioaccumulative potential:	not considered bioaccumulative
12.4 Mobility in soil:	moderate mobility in soil,
12.5 Other adverse effects	may include skin and eye irritation upon contact, respiratory issues when inhaled, and potential long-term impacts on human health and the environment if exposure occurs over extended periods.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging: Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Surfactants, Soap, Acids, Bleaching Agents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	Not regulated
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Not regulated
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Class Not regulated
14.4 Packing group · ADR, IMDG, IATA:	Not applicable
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user	Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified as oxidizing agent.
Named dangerous substances	ANNEX I Substance is not listed
15.2 Chemical safety assessment:	Chemical assessment has been carried out to check for potential hazard

SECTION 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated

specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity

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