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SAFETY DATA SHEET

1,2-DIBROMOPROPANE

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

1.1 Product identifier:	
CAS Number:	78-75-1
EC number:	201-139-1
1.2 SYNONYMS:	• Propylene dibromide • 1,2-Propanedibromide • DBP

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 Flammable liquids, (Category 3) Acute toxicity, (Category 4) Acute toxicity, inhalation (Category 4) Skin irritation, (Category 2) Eye irritation, (Category 2) Long-term (chronic) aquatic hazard, (Category 2)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H226:** Flammable liquid and vapor. **H302+H332:** Harmful if swallowed or if inhaled. **H315:** Causes skin irritation. **H319:** Causes serious eye irritation. **H411:** Toxic to aquatic life with long lasting effects.
Precautionary Statements:	**P261:** Avoid breathing dust/fume/gas/mist/vapours/spray . **P280:** Wear protective gloves, protective clothing, eye protection, face protection.

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	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. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can irritate the respiratory tract and may cause dizziness, headache, and damage to the lungs and other organs with repeated or high-level exposure.
Ingestion:	can cause gastrointestinal irritation, nausea, vomiting, and may lead to serious toxic effects on internal organs if absorbed.
Skin Contact:	can cause skin irritation and redness and may allow harmful absorption through the skin with prolonged or repeated exposure.
Eye contact:	can cause eye irritation, redness, pain, and possible injury if exposure is prolonged.
Chronic Exposure:	may cause serious health effects, including damage to the nervous system, liver, kidneys, and reproductive system.
Aggravation of pre-existing conditions:	may worsen existing respiratory, skin, liver, kidney, or reproductive system conditions.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 78-75-1 1,2-DIBROMOPROPANE
Identification number(s):	EC number: 201-139-1

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SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Exposure may cause acute irritation of the eyes, skin, and respiratory tract with headache and dizziness, while delayed effects can include damage to internal organs and the reproductive system after repeated exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water, carbon dioxide dry powder.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, hydrogen bromide gas.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for

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	leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

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	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Colourless to pale yellow
Odour:	Sweet, chloroform like
pH-value:	Not applicable
Melting point/Melting range:	-5°C
Boiling point/Boiling range:	141°C
Flammability (solid, gaseous):	Combustible
Ignition temperature:	240°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	55°C
Danger of explosion:	None
Explosion limits: Lower:	Not determined
Explosion limits: Upper:	Not determined
Vapour pressure:	15 mmHg at 25°C
Density at 20 °C:	1.98 g/cm^3
Relative density:	1.98
Vapour density:	6.0
Evaporation rate:	Not determined
Solubility in / Miscibility with- ·water at 20 °C:	slightly Soluble
Partition coefficient:(n-octanol/water)	2.1
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can react with strong oxidizing agents and strong bases, potentially releasing hazardous gases.
10.4 Conditions to avoid	Excessive heat, direct sunlight, flames.
10.5 Incompatible materials	Strong oxidizing agents, strong bases.

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10.6 Hazardous decomposition products	Carbon oxides, hydrogen bromide gas.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): no data available **LD50** (Dermal, Rabbit): no data available **LC50** (Inhalation Rat): no data available
Skin corrosion/Irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes eye irritation
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	No data available
Biodegradability:	Moderately biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): no data available EC50(daphnia): no data available ErC50(algae): no data available
12.2 Persistence and degradability:	Moderately biodegradable
12.3 Bioaccumulative potential:	low bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Soap and Water, sand.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1993
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	1,2-DIBROMOPROPANE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	3
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	Handle responsibly.

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 in listed substances as flammable liquid and environmental hazard.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage, expense arising out of or in any way connected with the handling, storage use or disposal of the product.