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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

DIMETHYLAMINOPROPYLAMINE

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

1.1 Product identifier:	
CAS Number:	109-55-7
EC number:	203-680-9
1.2 SYNONYMS:	• DMAPA • N,N-dimethyl-1,3-diaminopropane

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, oral (Category 4) Acute toxicity, dermal (Category 4) Skin corrosion, (Category 1B) Serious eye damage, (Category 1) Serious eye damage, (Category 1) Specific target organ toxicity - single exposure, Respiratory system (Category 3)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H226:** Flammable liquid and vapor. **H302 + H312:** Harmful if swallowed or in contact with skin. **H314:** Causes severe skin burns and eye damage. **H317:** May cause an allergic skin reaction.

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	H335: May cause respiratory irritation.
Precautionary Statements:	**P210:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. **P233:** Keep container tightly closed. **P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection. **P301 + P312:** IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. **P303 + P361 + P353:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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:	may cause respiratory tract irritation, coughing, and potential damage to mucous membranes.
Ingestion:	can cause burns to the mouth, throat, and stomach, leading to pain, nausea, vomiting, and potential systemic toxicity.
Skin Contact:	can cause severe irritation or chemical burns, and may lead to allergic skin reactions with repeated or prolonged exposure.
Eye contact:	can cause severe irritation, burns, and potential permanent eye damage, including vision loss.
Chronic Exposure:	may lead to prolonged skin sensitization, dermatitis, and

	respiratory issues, particularly in individuals repeatedly exposed without adequate protection.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as asthma, respiratory disorders, skin conditions (e.g., eczema or dermatitis), and eye disorders due to its irritant and sensitizing properties.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 109-55-7 DIMETHYLAMINOPROPYLAMINE
Identification number(s):	EC number: 203-680-9

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. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an

	unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects include severe skin and eye irritation or burns, respiratory tract irritation, allergic skin reactions, and potential long-term sensitization with repeated contact.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, nitrogen oxides.
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

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 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

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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.

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:	Ammonia-like, fishy
pH-value:	11.5

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Melting point/Melting range:	-60°C
Boiling point/Boiling range:	134°C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	285°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	40°C
Danger of explosion:	Yes
Explosion limits: Lower:	1.8%
Explosion limits: Upper:	9.4%
Vapour pressure:	2.3 hPa at 20 °C
Density at 20 °C:	0.83 g/cm³
Relative density:	0.83
Vapour density:	3.5
Evaporation rate:	Not determined
Solubility in / Miscibility with-·water at 20 °C:	Fully soluble
Partition coefficient:(n-octanol/water)	-0.55
Viscosity:	1.8 mPa·s at 25 °C

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 violently with strong oxidizers, strong acids, and halogenated compounds, potentially generating toxic gases such as ammonia and nitrogen oxides.
10.4 Conditions to avoid	Excessive heat, open flames, spark, Prolonged exposure to air and sunlight
10.5 Incompatible materials	Strong oxidizing agents, strong acids, acid chlorides, halogenated compounds
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide, ammonia.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 410 mg/kg **LD50** (Dermal, Rabbit): 2.835 mg/kg **LC50** (Inhalation Rat): 4 ppm (4hr)
Skin corrosion/Irritation:	Corrosive
Serious eye damage/irritation:	Corrosive
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:	may cause respiratory irritation
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	
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 122 mg/l (96hr) EC50(daphnia): 59.46 mg/l (48 hr) ErC50(algae): 56.2 mg/l (3 hr)
12.2 Persistence and degradability:	Readily Biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High 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:	Sand, water and detergent.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2734
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	N,N-DIMETHYL-1,3-DIAMINOPROPANE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8 (3)
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	None
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 substances.
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

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