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## Material Safety Data Sheet

### **3-Dimethylaminopropylamine MSDS**

#### **Section 1: Chemical Product and Company Identification**

**Product Name:** 3-Dimethylaminopropylamine,DMAPA

**Catalog Codes:** AC115900000, AC115900010, AC115900025, AC115902500, AC219860000, AC219860500

**CAS#:** 109-55-7

**RTECS:** Not available

**TSCA:** TSCA 8(b) inventory: 3-Dimethylaminopropylamine

**CI#:** Not available.

**Synonym:** DMAPA,N,N-DIMETHYL

PROPANE-1,3-DIAMINE;N,N-DIMETHYLTRIMETHYLENEDIAMINE;N,N-DIMETHYL-1,3-DIAMINOPROPANE;

**Chemical Name:** 3-Dimethylaminopropylamine,DMAPA

**Chemical Formula:** C5H14N2

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#### **Section 2: Composition and Information on Ingredients**

**Composition:**

Name	CAS # %	By Weight
3-Dimethylaminopropylamine,DMAPA	109-55-7	100

**Toxicological Data on Ingredients:** 3-Dimethylaminopropylamine LD50 Oral - Rat - male and female - 410 mg/kg;LD50 Dermal - Rat - 1.630,4 - 2.805,3 mg/kg

#### **Section 3: Hazards Identification**

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Skin Contact:**

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**Special hazards arising from the substance or mixture :** Carbon oxides, Nitrogen oxides (NOx)

**Advice for firefighters :** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** Use water spray to cool unopened containers.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

#### Section 6: Accidental Release Measures

**Small Spill:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large Spill:**

Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section 7: Handling and Storage

### Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

### Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Safety glasses. Lab coat.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

Not available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Clear liquid.

**Odor:** amine-like

**Taste:** Not available.

**Molecular Weight:** 132.16 g/mole

**Color:** colourless

**pH (1% soln/water):** 12,7 at 100 g/l at 20 °C

**Boiling Point:** 133°C

**Melting Point:** -60°C

Flash point:32°C

**Critical Temperature:** Not available.

**Specific Gravity:** 0.812 (Water = 1)

**Vapor Pressure:** 7 hPa at 20 °C

**Vapor Density:** 3.53 (Air = 1)

**Auto-ignition temperature:**215 °C at 1.013,25 hPa

**Volatility:** Not available.  
**Odor Threshold:** Not available.  
**Water/Oil Dist. Coeff.:** Not available.  
**Ionicity (in Water):** Not available.  
**Dispersion Properties:** Not available.  
**Solubility:** Not available.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.  
**Instability Temperature:** Not available.  
**Conditions of Instability:** Heat, ignition sources (flames, sparks, static), incompatible materials  
**Incompatibility with various substances:** Reactive with oxidizing agents, acids, alkalis.  
**Corrosivity:** Not available.  
**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Eye contact. Inhalation.  
**Toxicity to Animals:**  
Acute toxicity:LD50 Oral - Rat - male and female - 410 mg/kg;LD50 Dermal - Rat - 1.630,4 - 2.805,3 mg/kg  
**Chronic Effects on Humans:** Not available.  
**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.  
**Special Remarks on Toxicity to Animals:** Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.  
**Special Remarks on other Toxic Effects on Humans:**  
Acute Potential Health Effects: Skin: May cause mild skin irritation. It may be absorbed through the skin. Eyes: Causes mild eye irritaiton. Inhalation: May cause respiratory tract irritation. Ingestion: May cause digestive tract irritation. May affect the liver and kidneys

## Section 12: Ecological Information

**Ecotoxicity:** Not available.  
**BOD5 and COD:** Not available.  
**Products of Biodegradation:**  
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.  
**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### **Section 14: Transport Information**

**DOT Classification:** CLASS 8 (3) : POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE,

**Identification:** : Ester, n.o.s. 3-Dimethylaminopropylamin UNNA: 2734 PG: II

**Special Provisions for Transport:** Not available.

#### **Section 15: Other Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

#### **Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

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