

MATERIAL SAFETY DATA SHEET

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ATTN: PLANT MGR/SAFETY DIR

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This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

I. IDENTIFICATION

Product Name: N,N-Dimethylaniline
Common Name: Dimethylaniline
Formula: C8H11N

II. INGREDIENTS AND RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS

Name	% by Weight	CAS No.	RTECS No.
N,N-Dimethylaniline	99.7 minimum	121-69-7	BX472500
N-Methylaniline	0.3 maximum	100-61-8	BY455000
Aniline	0.05 maximum	62-53-3	BV665000

HAZARD DATA - DANGER!

May cause eye, skin, and upper respiratory tract irritation.

INGREDIENT HAZARD INFORMATION

Dimethylaniline is identified as a SARA Section 313 chemical.

III. PHYSICAL DATA

Boiling Point (oC): 193.5-194.5
Vapor Density (AIR=1): 4.2
Appearance and Odor: Yellow liquid; amine odor
Specific Gravity (H2O=1) @ 25o/25: 0.960
Solubility in Water: Slight; soluble in alcohol and acetone

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: 145oF (Tag Closed Cup)
Flammable Limits: Lel: 1.0%
Uel: 7.0%

EXTINGUISHING DATA

Carbon dioxide or dry chemicals, foam, water spray and fog.

SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT

Avoid contact with liquid and vapors. Wear full protective clothing and self-contained breathing apparatus. Clear area downwind of incident. Cool containers exposed to heat with water. (Water will spread spilled material.)

UNUSUAL FIRE AND EXPLOSION PROCEDURES

Vapors and liquid are toxic and flammable. May form explosive mixtures with air. Dangerous when heated to decomposition. May emit toxic fumes of aniline. (See also Sections 6, 7, 8, and 9.) Follow appropriate National Fire Protection Association (NFPA) codes.

HAZARDOUS INCOMPLETE COMBUSTION PRODUCTS

NO_x, CO. Also possible nitriles; aromatic amines; aldehydes; acids; cyanide; phenols.

V. REACTIVITY DATA

Stable: Yes, at ambient temperatures

Unstable: Yes, at elevated temperatures

INCOMPATIBILITY (Materials to Avoid)

Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrogen oxide gas.

Polymerization will not occur at ambient temperatures.

CONDITIONS TO AVOID

Excessive temperatures.

VI. SPILL OR LEAK PROCEDURES

TRANSPORTATION EMERGENCIES

Call CHEMTREC (800) 424-9300

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Clean up spills promptly. Avoid contact with liquid or vapor forms. (See Sections 8 and 10.) Ventilate immediate area, clear area downwind. Absorb spills using "Speedy Dry" or similar absorbent. Shovel and sweep up saturated absorbent material. Hose area down with water. Persons not wearing protective equipment and clothing should be restricted from area of spills and leaks.

ON HIGHWAY: Call CHEMTREC - (800) 424-8802. Local environmental agency should be notified.

WITHIN MANUFACTURING AREA: Contact Environmental Control Department

DISPOSAL METHODS: Deposit absorbent material saturated with product in a separate labeled, leak-proof container and take to an approved treatment, storage, or disposal facility. See Section 12 for RCRA/CERCLA information.

VII. HEALTH HAZARD DATA

MAJOR EXPOSURE HAZARDS

Inhalation: Yes
 Skin Contact: Yes
 Eye Contact: Yes
 Ingestion: Yes

TOXICITY AND SENSITIVITY DATA

Ingestion Oral LD50 (Rat): ca 1350 mg/kg
 Absorption Dermal LD50 (Rabbit): 1770 (1090-2860) mg/kg
 Inhalation LCLO (Rat): 250 mg/m³ (4 hour)
 Irritation - Skin (Rabbit): 0.67 on scale of 8 (Draize)
 Eyes (Rabbit): 1.0 mg/m³, 5h/d x 6d/wk x 17 wks
 caused by 5% (absolute) rise in methemoglobin.

CARCINOGENICITY

None of the components in this product are presently listed as a carcinogen by OSHA, NTP, IARC, or ACGIH. Warning: This product contains trace amounts of aniline which is listed by the State of California as a substance known to cause cancer. Warning: A report of a two-year gavage study of Dimethylaniline was published by NTP (TR 360, March 1989). The study demonstrated some evidence of carcinogenic activity of Dimethylaniline in male rats, equivocal evidence in female mice.

PRIMARY ROUTE(S) OF ENTRY

Inhalation, skin, and eyes

PERMISSIBLE EXPOSURE LIMITS

	OSHA (3/89)	ACGIH TLV (1990/91)	Buffalo Color Limit Values
N,N-Dimethylaniline	25 mg/m ³ TWA* 50 mg/m ³ STEL	25 mg/m ³ TWA* 50 mg/m ³ STEL	0.2 mg/m ³ TWA 2.0 mg/m ³ Ceiling
N-Methylaniline	2 mg/m ³ TWA*	2.2 mg/m ³ TWA*	1.0 mg/m ³ TWA
Aniline	8 mg/m ³ TWA*	7.6 mg/m ³ TWA*	2.0 mg/m ³ TWA

* Skin designation by OSHA and ACGIH

SIGNS AND SYMPTOMS OF EXPOSURE (PROGRESSIVE)

Cyanosis (blue coloration of lips, nail beds, and eyelids), headache, fatigue, dizziness, fast labored breathing, increased pulse, cardiac arrest, convulsions, coma, and death. Excessive chronic exposure can affect liver, spleen, kidneys, and blood.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE

None known

Vapor and liquid forms are toxic if breather, swallowed, or absorbed through the skin. Dimethylaniline of skin has poor warning properties. It is rapidly absorbed through skin and causes cyanosis. Do not get into eyes, on skin, or clothing. Avoid breathing vapor. Use with adequate ventilation. Eating and smoking should not be permitted in area where Dimethylaniline is handled, processed, or stored.

Dimethylaniline should be handled in closed systems, using steel pipelines and equipment. Recommended storage temperature is 50o to 100oF. Keep closed to protect from light and prevent evaporation. Re-use of containers for other materials is not recommended.

VIII. EMERGENCY AND FIRST AID PROCEDURES

In case of contact, get medical attention.

Remove person from exposure site. Immediately flush eyes or skin with large amounts of water for at least 15 minutes while removing contaminated clothing, including shoes. Shower thoroughly and don clean, dry clothing and clean shoes. Thorough cleansing of the entire contaminated area of the body, including hair, scalp, nails, nostrils, and ear canals, is of utmost importance. Discard all contaminated clothing and shoes. If ingested and person is conscious, induce vomiting. Support breathing with artificial respiration, if necessary.

Note to Physician: Special Medical Surveillance: Blood methemoglobin if exposure or degree of cyanosis is in doubt. Avoid aspirin or aspirin-like products for complaints of headache. Advise patient to avoid alcohol for 2-3 days. In case of skin absorption, symptoms may be delayed.

IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY: NIOSHA/MSHA approved organic vapor respirator should be used to avoid excessive inhalation. Appropriate respirator selection depends on magnitude and type of exposure.

SKIN: Natural rubber or butyl rubber gloves should be used to prevent skin contact. Where employees may be splashed, polyethylene protective aprons or clothing should be provided. A face shield should be used to prevent facial contact.

EYE: Employees should be required to wear chemical splash proof safety glasses to prevent eye contact.

VENTILATION: Local exhaust ventilation should be used to control the build-up of air contaminants. General dilution ventilation may help to reduce air contaminant concentrations.

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OTHER PROTECTIVE EQUIPMENT: An eyewash station and deluge safety shower should be available in the work area. Moisturizing creams can be used to prevent excessive drying of the skin.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, and fire. Keep container closed. Store away from oxidizers. Bond and ground containers for transfers of this product to prevent static sparks.

X. REGULATORY STATUS

TSCA STATUS: This product (or its ingredients if it is a mixture) appears on the Toxic Substances Control Act Inventory (TSCA).

SARA HAZARD CATEGORIES (Section 311 and Section 312):

Reactivity: Yes
Immediate Health: Yes
Delayed Health: Yes
Fire: Yes

SARA Section 313: See Section II, Ingredient Hazard Statement

XI. SHIPPING INFORMATION

DOT/IMO

Proper shipping Name : N,N-DIMETHYLANILINE
Hazard Class : 6.1
UN No. : UN 2253
Packaging Group : II
DOT Placard : Poison

Shipping Containers

Tank Car
Tank Truck
Drums

HMIS RATINGS (Hazardous Materials Identification System, Scale 0-4):

Health: 4
Flammability: 2
Reactivity: 0

NFPA RATINGS (National Fire Protection Association, Scale 0-4):

Health: 4
Flammability: 2
Reactivity: 0