Material Safety Data Sheet

Diisopropylamine

MSDS# 07610

Section 1 - Chemical Product and Company Identification

MSDS Name:	Diisopropylamine
Catalog Numbers:	O2412-4
Synonyms:	DIPA; N-(1-Methylethyl)-2-propanamine; Diisopropylamine.
Company Identification:	Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	201-796-7100
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#:	108-18-9
Chemical Name:	Diisopropylamine
%:	100
EINECS#:	203-558-5

Hazard Symbols: F C

Risk Phrases: 11 20/22 34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! May be harmful if swallowed. May be absorbed through intact skin. Causes eye and skin burns. Causes digestive and respiratory tract burns. May be harmful if inhaled. Extremely flammable liquid and vapor. Vapor may cause flash fire.
Target Organs: Respiratory system, eyes, skin, mucous membranes.

Potential Health Effects

Eye:	Causes eye burns. Rapidly penetrates eye tissue. Exposure to concentrations between 25 and 50 ppm may cause disturbances of vision described as "haziness".
Skin:	Causes skin burns. May be absorbed through the skin.
Ingestion:	Harmful if swallowed. Causes gastrointestinal tract burns.
Inhalation:	Causes chemical burns to the respiratory tract. Inhalation may cause nausea and headache.
Chronic:	Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation may cause effects similar to those of acute inhalation.

Section 4 - First Aid Measures

Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.
Skin:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
Ingestion:	If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Inhalation: Get medical aid.

Notes to Physician: Rapidly penetrates eye tissue. Extensive flushing of the eye is recommended.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Extremely flammable liquid and vapor. Vapor may cause flash fire. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

Extinguishing Media: Water may be ineffective. Use water spray, dry chemical, "alcohol resistant" foam, or carbon dioxide.

Autoignition Temperature: 316 deg C (600.80 deg F)

Flash Point: -7 deg C (19.40 deg F)

Explosion Limits: Lower: 0.8%

Explosion Limits: Upper: 7.1%

NFPA Rating: health: 3; flammability: 3; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Provide ventilation. Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed. Isolate from oxidizing materials and acids.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Diisopropylamine	5 ppm; Skin - potential significant contribution to overall exposure by the cutaneous route	5 ppm TWA; 20 mg/m3 TWA 200 ppm IDLH	5 ppm TWA; 20 mg/m3 TWA

OSHA Vacated PELs: Diisopropylamine: 5 ppm TWA; 20 mg/m3 TWA

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: colorless
Odor: ammonia-like
pH: alkaline
Vapor Pressure: 60 mm Hg @ 20 deg C
Vapor Density: 3.5
Evaporation Rate: 5.8 (butyl acetate=1)
Viscosity: 0.4 mPa s 20 C
Boiling Point: 84 deg C (183.20°F)
Freezing/Melting Point: -61 deg C (-77.80°F)
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density: 0.7200
Molecular Formula: C6H15N
Molecular Weight: 101.19

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Ignition sources.
Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 108-18-9: IM4025000

LD50/LC50:
RTECS:
CAS# 108-18-9: Inhalation, mouse: LC50 = 4200 mg/m3/2H;
Inhalation, rat: LC50 = 4800 mg/m3/2H;
Oral, mouse: LD50 = 2120 mg/kg;
Oral, rabbit: LD50 = 4700 mg/kg;
Oral, rat: LD50 = 770 mg/kg;
Skin, rabbit: LD50 = >10 gm/kg;
.

Carcinogenicity: Diisopropylamine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: DIISOPROPYLAMINE
Hazard Class: 3
UN Number: UN1158
Packing Group: II
Canada TDG
Shipping Name: Not available
Hazard Class:

UN Number:
Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F C

Risk Phrases:

R 11 Highly flammable.

R 20/22 Harmful by inhalation and if swallowed.

R 34 Causes burns.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 108-18-9: 2

Canada

CAS# 108-18-9 is listed on Canada's DSL List

Canadian WHMIS Classifications: B2, E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 108-18-9 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 108-18-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #6 Date 7/20/2009

Reviewed
2012.10.04
11:23:21 -04'00'

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