



## **Material Safety Data Sheet**



Section 1. Chem	Page Number: 1		
Common Name/ Trade Name	Diisopropylamine	Catalog Number(s).	D2282
		CAS#	108-18-9
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	IM4025000
14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Diisopropylamine
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	N-(1-Methylethyl)-2-propanamine; 2-Propanamine, N-(1-methylethyl)-	IN CASE OF	EMERGENCY
Chemical Name	Diisopropylamine	CHEMTREC	<u>(24hr) 800-424-9300</u>
Chemical Family Not available.		CALL (310) 5	16-8000
Chemical Formula	C6H15N		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients							
				Exposure Limits			
Name		CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight	
1) Diisopropylamine		108-18-9	5			100	
Toxicological Data on Ingredients	Diisopropylamine: ORAL (LD50):Acute: 770 mg/kg [Rat]. 2120 mg/kg [Mouse]. 4700 mg/kg [Rabbit]. DERMAL (LD50):Acute: >10000 mg/kg [Rabbit]. VAPOR (LC50):Acute: 4200 mg/m³ 2 hours [Mouse]. 4800 mg/m³ 2 hours [Rat]						
Section 3. Hazards Ic	Section 3. Hazards Identification						
Potential Acute Health Effects	Very hazardous in ca inhalation. Slightly Liquid or spray mist respiratory tract. Ski of respiratory tract, o characterized by reo reddening, or, occasi	ase of skin contact (i hazardous in case of may produce tissue n contact may produ characterized by cou dness, watering, and onally, blistering.	rritant), of eye con of skin contact (co e damage particula ce burns. Inhalatio ghing, choking, or d itching. Skin inf	tact (irritant), of in rrosive, permeat arly on mucous n on of the spray m shortness of bre ilammation is cha	ngestion. Hazar or), of eye conta nembranes of ey ist may produce ath. Inflammatic aracterized by it	dous in case of act (corrosive). res, mouth and severe irritation on of the eye is ching, scaling,	

Diisopropylamine	Page Number: 2
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to lungs, mucous membranes, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.
Section 4. First Aid N	leasures
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 immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
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. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.
Section 5. Fire and Ex	xplosion Data
Flammability of the Product	Flammable.
Auto-Ignition Temperature	316℃ (600.8뚜)
Flash Points	CLOSED CUP: -10 to -7°C (14-19.4°F). OPEN CUP: - 1°C (30.2°F).
Flammable Limits	LOWER: 0.8% UPPER: 7.1%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.
Special Remarks on Fire Hazards	When heated to decomposition it emits toxic fumes of nitrogen oxides. Vapor may travel considerable distance to source of ignition and flash back. May form explosive mixtures with air.
Special Remarks on Explosion Hazards	Vapors may form explosive mixtures with air.

D!!~~		
DIISO	propy	iamine

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. Corrosive 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 get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. 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 a	and Storage				
Precautions	Keep away from heat. Keep away from sources o ingest. Do not breathe gas/fumes/ vapor/spray. ventilation, wear suitable respiratory equipment. container or the label. Avoid contact with skin a agents, acids.	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. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.			
Storage	Store in a segregated and approved area. Keep tightly closed and sealed until ready for use. Avoi	p containe d all possi	r in a cool, well-ventilated area. Keep container ble sources of ignition (spark or flame).		
Section 8. Exposure	Controls/Personal Protection				
Engineering Controls	Provide exhaust ventilation or other engineering c their respective threshold limit value. Ensure the work-station location.	ontrols to at eyewast	keep the airborne concentrations of vapors below to stations and safety showers are proximal to the		
Personal Protection	Face shield. Full suit. Vapor respirator. Be s Gloves. Boots.	ure to use	an approved/certified respirator or equivalent.		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.				
Exposure Limits	TWA: 5 (ppm) from OSHA (PEL) [United States] SKIN TWA: 5 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 5 from NIOSH [United States] SKIN TWA: 20 (mg/m <sup>3</sup> ) from NIOSH [United States] SKIN TWA: 5 (ppm) [United Kingdom (UK)] SKIN TWA: 5 (ppm) [Belgium] SKIN TWA: 5 (ppm) [Finland] SKIN TWA: 5 (ppm) [Finland] SKIN TWA: 5 (ppm) [Finland] SKIN TWA: 5 STEL: 10 (ppm) [Norway] SKIN TWA: 5 (ppm) [United Kingdom (UK)] TWA: 5 (ppm) [United Kingdom (UK)] TWA: 5 (ppm) [Canada] TWA: 21 (mg/m <sup>3</sup> ) [Canada] Consult local authorities for acceptable exposure limits				
Section 9. Physical a	nd Chemical Properties				
Physical state and appearance	Liquid.	Odor	Ammoniacal. Fish-like.		
Molecular Weight	101.19 g/mole	Taste	Not available.		
pH (1% soln/water)	Not available.	Color	Colorless.		
Boiling Point	84°C (183.2°F)				
Melting Point	-61°C (-77.8°F)				
Critical Temperature	249°C (480.2°F)				
Specific Gravity	0.7169 (Water = 1)				
Vapor Pressure	6.9-8 kPa (@ 20℃)				
Vapor Density	3.5 (Air = 1)				

Continued on Next Page

Not available.

Volatility

Diisopropylamine	Page Number: 4
Odor Threshold	Not available.
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 1.4
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water, diethyl ether, acetone.
Solubility	Easily soluble in diethyl ether, acetone. Partially soluble in cold water. Very soluble in benzene, ethanol.
Section 10. Stability a	and Reactivity Data
Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Heat, ignition sources, incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents, acids.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	It will react vigorously with oxidizing materials. It will also react with strong acids. Diisopropylamine may attack some forms of plastic.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.
Section 11. Toxicolog	gical Information
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	EXPOSURE. Acute oral toxicity (LD50): 770 mg/kg [Rat]. Acute dermal toxicity (LD50): >10000 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 4200 mg/m <sup>3</sup> 2 hours [Mouse]. 4800 mg/m <sup>3</sup> 2 hours [Ra
Chronic Effects on Humans	<b>MUTAGENIC EFFECTS</b> : Mutagenic for bacteria and/or yeast. May cause damage to the following organs: lungs, mucous membranes, upper respiratory tract, skin, eyes.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of inhalation (lung corrosive). Slightly hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: It causes severe skin irritation and burns. Causes smarting of skin and first-degree burns on short exposure; may cause second-degree burns on long exposure. It may be absorbed through the skin with possible systemic effects. Eyes: Contact with liquid causes severe eye irritation and burns with possible loss of vision. Contact with vapors causes irritation disturbances of vision or visual impairment Inhalation: It can cause respiratory tract (nose, throat, lungs) and mucous membrane irritation with coughing and/or shortness of breath, and possible burns to the respiratory tract. Higher exposures can cause pulmonary edema. Inhalation of vapors can cause headache, nausea, vomiting, dizziness or coma, or suffocation. May also cause vision problems and cause pulmonary edema. Ingestion: May be harmful if swallowed. Causes gastrointestinal tract irritation with sore throat, vomiting, diarrhea, burns to the mouth, throat and stomach. Chronic Potential Health Effects: Skin: Repeated or prolonged skin contact may cause dermatitis

Diisopropylamine	Page Number: 5					
Section 12. Ecologie	Section 12. Ecological Information					
Ecotoxicity	Ecotoxicity in water (LC50): 20 mg/l 96 hours [Algae (Pseudokirchneriella subcapitata)]. 25.8 ppm 24 ho [Daphnia (daphnia magna)]. 150-223 mg/l 96 hours [Fish (Brachydanio rerio)]. 420-560 mg/l 96 hours [Fish (Oryzias latipes)]. 1000 mg/l 96 hours [Fish (Poecilia reticulata)]. 37 mg/l 96 hours [Fi (Oncorhynchus mykiss)].	urs urs ish				
BOD5 and COD	Not available.					
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation produ may arise.	cts				
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.					
Special Remarks on the Products of Biodegradation	Not available.					
Section 13. Disposa	I Considerations					
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.					
Section 14. Transpo	ort Information					
DOT Classification	CLASS 3: Flammable liquid. Class 8: Corrosive material					
Identification	UNNA: 1158 : Diisopropylamine PG: II					
Special Provisions for Transport	Not available.					
DOT (Pictograms)						

PLANMAULE LIQUED	CORROSIVE

Section 15. Other Regulatory Information and Pictograms				
Federal and State Regulations	Pennsylvania RTK: I Minnesota: Diisopro Massachusetts RTK Massachusetts spill New Jersey: Diisopr California Director's TSCA 8(b) inventory	Diisopropylamine pylamine : Diisopropylamine list: Diisopropylamine opylamine List of Hazardous Substances: Diisopropylamine r: Diisopropylamine		
California Proposition 65 Warnings	California prop. 65: found to cause can California prop. 65: found to cause	This product contains the following ingredients for which the State of California has beer which would require a warning under the statute: No products were found. This product contains the following ingredients for which the State of California has h defects which would require a warning under the statute: No products were found.		
Other Regulations	OSHA: Hazardous b EINECS: This produ No. 203-558-5). Canada: Listed on 0 China: Listed on Na Japan: Listed on Na Korea: Listed on Na Philippines: Listed on Australia: Listed on	y definition of Hazard Communication Standard (29 CFR 1910.1200). act is on the European Inventory of Existing Commercial Chemical Substances (EINECS Canadian Domestic Substance List (DSL). ational Inventory. ational Inventory (ENCS). ational Inventory (KECI). on National Inventory (PICCS). AICS.		
Other Classifications	WHMIS (Canada)	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS E: Corrosive liquid.		
	DSCL (EEC)			
Continued on Ne	xt Page			

Diisopropylamine					Page Number: 6
		R11- Highly flammable. R20/22- Harmful by inhalation and if swallowed. R34- Causes burns.		S16- Keep away from s smoking. S26- In case of contact immediately with plenty medical advice. S36/37/39- Wear suitat gloves and eye/face pro S45- In case of acciden seek medical advice im label where possible).	ources of ignition - No with eyes, rinse of water and seek ole protective clothing, otection. It or if you feel unwell, mediately (show the
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	3 National F 3 Associatio	ire Protection n (U.S.A.)	Health	Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)					
DSCL (Europe) (Pictograms)					
TDG (Canada) (Pictograms)					
ADR (Europe) (Pictograms)					
Protective Equipment	Gloves				
	Full su	t.			
	Vapor approv equival respira inadeq Face s	espirator. Be sure to ed/certified respirato ent. Wear appropria for when ventilation i uate. hield.	o use an <sup>-</sup> or te s		

Diisopropylamine			Page Number: 7
Section 16. C	Other Information		
MSDS Code	6500D		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 7/5/2012.		Verified by Sonia Owen. Printed 7/5/2012.	
CALL (310) 516-800	00		

## Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.