



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
30	Health Hazard 3 Fire Hazard 3	
	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	Propylamine		Catalog Number(s).	P2103
			CAS#	107-10-8
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	UH9100000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: No products were found.
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	1-Aminopropane			
Chemical Name	Propylamine			<u>EMERGENCY</u> (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C3-H9-N			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition	and Information	on Ingredients				
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Propylamine		107-10-8				100
Toxicological Data on Ingredients	Propylamine: ORAL (LD50): VAPOR (LC50):	Acute: 570 mg/kg Acute: 2310 ppm	g [Rat]. 4 hour(s) [Rat]. 73	31.2 ppm 4 hour(s)) [Mouse].	1
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Very hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant, corrosive), of ingestion, of inhalation (lung irritant, lung sensitizer). Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.					
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Propylamine	Page Number: 2
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Classified None. for human. TERATOGENIC EFFECTS: Classified None. for human. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [SUSPECTED]. Classified Reproductive system/toxin/male, Development toxin [None.]. The substance is toxic to kidneys, lungs, heart. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Section 4. First Ai	d Measures
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate 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. 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. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.

Section 5. Fire and E	xplosion Data
Flammability of the Product	Flammable.
Auto-Ignition Temperature	317°C (602.6°F)
Flash Points	OPEN CUP: -37.26°C (-35.1°F).
Flammable Limits	LOWER: 2% UPPER: 10.4%
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. Explosive in presence of open flames and sparks, 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	Vapors are heavier than air and may travel to a source of ignition and flash back
Special Remarks on Explosion Hazards	Not available.

Small Spill

Section 6. Accidental Release Measures

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

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. Eliminate all ignition sources. 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 locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/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, organic materials.

 Storage
 Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

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	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
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	Finland: STEL: 5 (ppm) SKIN

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Ammoniacal.	
Molecular Weight	59.11 g/mole	Taste	Not available.	
pH (1% soln/water)	Not available.	Color	Colorless.	
Boiling Point	48.5°C (119.3°F)			
Melting Point	-83°C (-117.4°F)			
Critical Temperature	223.8°C (434.8°F)			
Specific Gravity	Not available.			
Vapor Pressure	245 mm of Hg (@ 20°C)			
Vapor Density	2.04 (Air = 1)			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			

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Propylamine	Page Number: 4
Dispersion Properties	Partially dispersed in hot water, diethyl ether. Very slightly dispersed in cold water. See solubility in diethyl ether, acetone.
Solubility	Easily soluble in acetone. Partially soluble in hot water, diethyl ether. Very slightly soluble in cold water.
Section 10. Stability	and Reactivity Data
Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Reactive with oxidizing agents, organic materials.
Corrosivity	Non-corrosive in presence of glass, of steel.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	No.
Section 11. Toxicolog	gical Information
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 570 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 731.2 ppm 4 hour(s) [Mouse].
Chronic Effects on Humans	MUTAGENIC EFFECTS: Classified None. for human. TERATOGENIC EFFECTS: Classified None. for human. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [SUSPECTED]. Classified Reproductive system/toxin/male, Development toxin [None.]. The substance is toxic to kidneys, lungs, heart.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant, sensitizer), of eye contact (corrosive), of ingestion, of inhalation (lung irritant, lung sensitizer).
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	Not available.
Section 12. Ecologica	al 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 products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.
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Section 13. Disposal Considerations

Waste Disposal

Section 14. Trans	oort Information	
DOT Classification	Class 3: Flammable liquid.	
Identification	: Propylamine : UN1277 PG: II	
Special Provisions for Transport	Not available.	
DOT (Pictograms)	I CORRAGE FRANCE	
Section 15. Other	Regulatory Information and Pictograms	
Federal and State Regulations	Pennsylvania RTK: Propylamine Florida: Propylamine Massachusetts spill list: Propylamine New Jersey: Propylamine TSCA 8(b) inventory: No products were found. TSCA 4(a) proposed test rules: Propylamine TSCA 8(d) H and S data reporting: Propylamine: Mar 7, 1986 CERCLA: Hazardous substances.: Propylamine	
California Proposition 65 Warnings		
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Other Classifications	WHMIS (Canada) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).	
	DSCL (EEC) R11- Highly flammable. R20/21- Harmful by inhalation and in contact with skin. R36/37/38- Irritating to eyes, respiratory system and skin.	
HMIS (U.S.A.)	Health Hazard3Fire Hazard3Reactivity0Personal Protectionh	
WHMIS (Canada) (Pictograms)		

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Propylamine		Page Number: 6
DSCL (Europe) (Pictograms)	×	
TDG (Canada) (Pictograms)		
ADR (Europe) (Pictograms)		
Protective Equipment	Gloves.	
	Lab coat.	
	approved/certi equivalent. W	tor. Be sure to use an ified respirator or /ear appropriate respirator on is inadequate.
	Splash goggle	2S.
Section 16. Other Inf	ormation	

MSDS Code	5706P		<u>.</u>
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/13/2006.	
CALL (310) 516-80	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.