



Material Safety Data Sheet

HAZARD WARNINGS





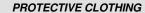


RISK PHRASES

Flammable material; avoid heat and sources of ignition. Corrosive to eyes and skin on contact.

Toxic compound, do not ingest or inhale. Avoid all contact with this material.

Air sensitive material. Store under nitrogen.





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Section I.	Chemical Product and Company Identification				
Chemical Name	n-Hexylamine				
Catalog Number	H0134	Supplier	TCI America 9211 N. Harborgate St.		
Synonym	1-Aminohexane		Portland OR 1-800-423-8616		
Chemical Formula	CH ₃ (CH ₂) ₅ NH ₂		***************************************		
CAS Number	111-26-2	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)		
		Call	(703) 527-3887 (International)		

Section II. Composition and Information on Ingredients						
Chemical Name		CAS Number	Percent (%)	TLV/PEL	Toxicology Data	
n-Hexylamine		111-26-2	Min. 99.0 (GC,T)		Rat LD ₅₀ (oral) 670 mg/kg Rabbit LD ₅₀ (dermal) 420 mg/kg	

Section III. Hazards Identification

Acute Health Effects

Corrosive to skin, eyes, and respiratory system. Liquid or spray mist may produce tissue damage, particularly in mucous membranes of the eyes, mouth and respiratory tract. Skin contact may produce burns. Eye contact can result in corneal damage or blindness. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Corrosive materials may cause serious injury if ingested. Toxic if ingested, inhaled, or through dermal contact. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Chronic Health Effects

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS**: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

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. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV. First Aid Measures

Eye Contact

Check for and remove any contact lenses. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively.

Skin Contact

If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.

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 artificial respiration. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Ingestion

DO NOT induce vomiting. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. 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. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

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Section V.	Fire and Explosion Data					
Flammability	Flammable.	Auto-Ignition	Not available.			
Flash Points	8°C (46.4°F).	Flammable Limits	Not available.			
Combustion Products	These products are toxic carbon oxide	These products are toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂).				
Fire Hazards		Extremely flammable in presence of open flames, sparks, shocks, heat, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis, moisture.				
Explosion Hazards	Risks of explosion of the product in pre	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. No additional information is available regarding the risks of explosion.				
Fire Fighting Media and Instructions	LARGE FIRE: Use alcohol foam, wa	SMALL FIRE: Use DRY chemicals, CO ₂ , alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Consult with local fire authorities before attempting large scale fire-fighting operations.				
Section VI.	Accidental Release Measu	ıres				
Spill Cleanup Instructions	Flammable liquid. Corrosive liquid. Toxic material. Keep away from heat and sources of ignition. Mechanical exhaust required. 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. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.					
Section VII.	Handling and Storage					
Handling and Storage Information	FLAMMABLE. CORROSIVE. TOXIC. AIR SENSITIVE. STORE UNDER NITROGEN. Reactive with strong oxidizers; may be ignited by heat, sparks, or flames. Vapors may travel to source of ignition and flash back. Tightly seal container and store in a cool place. Closed containers may explode from heat of a fire. Empty containers may pose a fire risk. Evaporate residue under a fume hood if possible. Ground all equipment containing material. Handle with caution and minimize exposure. Keep container dry. Keep away from heat and sources of ignition. Mechanical exhaust required. Avoid excessive heat and light. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Avoid contact with eyes. 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. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents, acids.					
Section VIII.	Exposure Controls/Perso	nal 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 station and safety shower is proximal to the work-station location.				
Personal Protection						
Exposure Limits	Not available.					
Section IX.	Physical and Chemical Pr	onerties				
Physical state @ 20°C	Colorless liquid.	Solubility	Not available.			
Specific Gravity	0.77 (water=1)					
Molecular Weight	101.19	Partition Coefficient	Not available.			
Boiling Point	131 to 132°C (267.8 to 269.6°F)	Vapor Pressure	Not available.			
Melting Point	-23 °C (-9.4 °F)	Vapor Density	Not available.			
Refractive Index	Not available.	Volatility	Not available.			
Critical Temperature	Not available.	Odor	Not available.			
Viscosity	Not available.	Taste	Not available.			
Section X. Stability and Reactivity Data						
Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)					
Conditions of Instability	Absorbs CO ₂ from air. Avoid excessive	Absorbs CO ₂ from air. Avoid excessive heat and light.				
Incompatibilities	Reactive with oxidizing agents, acids,	Reactive with oxidizing agents, acids, carbon dioxide, acid chlorides, and acid anhydrides.				

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Section XI. Toxicological Information

RTECS Number

MQ4540000

Routes of Exposure

Eye contact. Inhalation. Ingestion. Skin contact.

Toxicity Data

Rat LD_{50} (oral) 670 mg/kg Rabbit LD_{50} (dermal) 420 mg/kg

Chronic Toxic Effects

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

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Section XII. Ecological Information

Ecotoxicity

Not available.

Environmental Fate

Not available.

Section XIII. Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.

Section XIV. Transport Information

DOT Classification

DOT CLASS 3: Flammable liquid. DOT CLASS 6.1: Toxic liquid. DOT CLASS 8: Corrosive liquid.

PIN Number

UN3286

Proper Shipping Name

Flammable liquid, toxic, corrosive, n.o.s.

Packing Group (PG)

ing Group (PG)

DOT Pictograms







Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory
(EPA)

This product is **ON** the EPA Toxic Substance Control Act (TSCA) inventory.

WHMIS Classification (Canada)

WHMIS CLASS B-2: Flammable liquid with a flash point lower than 37.8 ℃ (100 ℉). WHMIS CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

WHMIS CLASS E: Corrosive liquid.

EINECS Number (EEC)

203-851-8

EEC Risk Statements

R11- Highly flammable. R28- Very toxic if swallowed. R35- Causes severe burns.

R41- Risk of serious damage to eyes.

Japanese Regulatory Data

Not available.

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Section XVI. Other Information

Version 1.0 Validated on 3/12/2009. Printed 3/12/2009.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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