

Revision number: 3 Revision date: 10/17/2016

1. IDENTIFICATION

Product name:	
Product code:	

1-Hexadecanethiol H0068

Product use: Restrictions on use: For laboratory research purposes. Not for drug or household use.

Emergency telephone number:
Chemical Emergencies:
TCI America (8:00am - 5:00pm) PST
+1-503-286-7624
Transportation Emergencies:
Chemtrec 24-Hour
+1-800-424-9300 (U.S.A.)
+1-703-527-3887 (International)
Responsible department:
TCI America
Environmental Health Safety and Security +1- 503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:	Eye Damage/Irritation [Category 2B]
Signal word:	Warning!
Hazard Statement(s):	Causes eye irritation
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention] [Response]	Wash hands and face thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
[Storage] [Disposal]	None None

TCI AMERICA

SAFETY DATA SHEET

Hazards not otherwise classified: [HNOC] Causes mild skin irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Substance
Components:	1-Hexadecanethiol
Percent:	>97.0%(GC)
CAS Number:	2917-26-2
Molecular Weight:	258.51
Chemical Formula:	C ₁₆ H ₃₄ S
Synonyms:	1-Cetanethiol, Cetyl Mercaptan, Hexadecyl Mercaptan

4. FIRST-AID MEASURES

Inhalation:

Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4. FIRST-AID MEASURES Skin contact:	If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects o exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s)
Ingestion:	involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Redness. No data available
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO_2 , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the chen Hazardous combustion products:	nical These products include: Carbon oxides Sulfur oxides

Special protective equipment for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

7. HANDLING AND STORAGE

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling: Do NOT breath gas, fumes, vapor, or spray. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.

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7. HANDLING AND STORAG			
Conditions for safe storage:	Containers which are ope prolonged storage period	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.	
Storage incompatibilities:	Store away from oxidizing	Store away from oxidizing agents	
8. EXPOSURE CONTROLS /	PERSONAL PROTECTION		
Exposure limits:	No data available		
Appropriate engineering contro Good general ventilation should be ountains should be provided in ar engineering/laboratory practices w	e sufficient to control airborne levels. eas where there is any possibility that	Ventilation is normally required when t workers could be exposed to the sub	handling or using this product. Eyewash stance. Follow safe industrial
Personal protective equipment			
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Nitrile gloves.	to use a MSHA/NIOSH approved respanses and face protection (full least goggles) and face protection (full least	
9. PHYSICAL AND CHEMICA	AL PROPERTIES		
Physical state (20°C): Form: Color: Ddor: Ddor threshold:	Liquid Clear Colorless - Very pale yello Characteristic No data available	ow	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	19°C (Freezing point) (66°F) 189°C (372°F)/1.3kPa No data available 0.85 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available 10Pa/20°C 8.9 No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	135°C (275°F) No data available	Autoignition temperature: Flammability or explosive limit Lower: No data a	
		Upper: No data a	vailable
Solubility(ies): Water: Insoluble			
10. STABILITY AND REACTI	WITY		
Reactivity: Chemical Stability: Possibility of Hazardous Reactio Conditions to avoid: ncompatible materials: Hazardous Decomposition Prod	ons: No hazardous reactivity h Avoid excessive heat and Oxidizing agents)
11. TOXICOLOGICAL INFOR	RMATION		
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Acute Toxicity: No data available		
Skin corrosion/irritation: No data available		
Serious eye damage/irritation: No data available		
Respiratory or skin sensitization: No data available		
Germ cell mutagenicity: No data available		
Carcinogenicity:		
No data available		
IARC: No data available	NTP: No data available OSHA: No data available	
Reproductive toxicity: No data available		
Potential Health Effects:	Inhalation, Eye contact, Ingestion, Skin contact. Skin contact may result in redness, pain or dry skin.	
Skin and eye contact may result in irritation. Target organ(s):	No data available	
12. ECOLOGICAL INFORMATION		
Factoriaity		
Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available	
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available No data available No data available No data available No data available No data available	
13. DISPOSAL CONSIDERATIONS		
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State rules and regulations. You may be able to dissolve or mix material with a combustible solvent chemical incinerator equipped with an afterburner and scrubber system. This section is intend assistance but does not replace these laws, nor does compliance in accordance with this sec regulatory compliance according to the law. US EPA guidelines for Identification and Listing or Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the enviror water ways, or the soil.	and burn in a led to provide tion ensure f Hazardous
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.	
14. TRANSPORT INFORMATION		
DOT (US)	Non-hazardous for transportation.	
ΙΑΤΑ		
IMDG	Non-hazardous for transportation.	

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

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

US Federal Regulations	
CERCLA Hazardous subst	nce and Reportable Quantity:
SARA 313:	Not Listed
SARA 302:	Not Listed
State Regulations	
State Right-to-Know	
Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed
Other Information	
NFPA Rating:	HMIS Classification:
Health: 2	Health: 2
Flammability: 1	Flammability: 1
Instability: 0	Physical: 0
International Inventories	
WHMIS hazard class: EC-No:	D2B: Materials causing other toxic effects. (Toxic) 220-846-6
16. OTHER INFORMAT	2N

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TCI 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 affiliates or 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 SDS 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 SDS 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, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.