

Revision number: 3 Revision date: 11/10/2015

1. IDENTIFICATION

Product name: Product code: O-Allylhydroxylamine Hydrochloride A1449

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-800-424-9300 (U.S.A.)

+1-503-286-7624

Chemtrec 24-Hour

+1-503-286-7624

TCI America

Product use: Restrictions on use:

Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

None

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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. None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Substance O-Allylhydroxylamine Hydrochloride >98.0%(T) 38945-21-0 109.55 C₃H₇NO·HCI

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		
Skin contact:	symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. 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.		
Eye contact:	Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. 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 of 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. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. 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.		
ymptoms/effects:			
Acute: Delayed:	Redness. No data available		
mmediate 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			
uitable 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 che			
lazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.		
Special precautions for fire-fighters: Jse water spray or fog; do not use strai eated. Move containers from fire area Special protective equipment for fire-	,		
Near positive pressure self-contained b	reathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations uations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may		
6. ACCIDENTAL RELEASE MEAS	SURES		
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.		
Personal protective equipment:	Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).		
Emergency procedures:	Prevent dust cloud. 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 severs, basements or		

Methods and materials for containment and cleaning up:

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:**

confined areas; dike if needed.

appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or

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.

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Precautions for safe handling:	Avoid inhalation of vapor or mist. 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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Conditions for safe storage:	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. Store under inert gas (e.g. Argon). Hygroscopic material, store in a tightly
	sealed container.
Storage incompatibilities:	Bases, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Hand protection: Eye protection: Skin and body protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Nitrile gloves. Safety glasses. Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Very pale yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	170°C (dec.) (338°F) No data available No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available		No data available imits: ta available ta available

Solubility(ies):

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Air sensitive. No hazardous reactivity has been reported. Air sensitive. Exposure to air. Strong oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

O-Allylhydroxylamine Hydrochloride	TCI AM	ERICA		Page 4 of 5
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				
Routes of Exposure: Symptoms related to exposure: Skin contact may result in inflammation; ch or dry skin. Eye contact may result in redne Potential Health Effects:	naracterized by itching ess or pain.	ntact, Ingestion, Skin contac , scaling, reddening, or occa		n contact may result in redness, pain
Skin and eye contact may result in irritatior Target organ(s):	n. No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence and degradability:	No data available			
Bioaccumulative potential (BCF):	No data available			
Mobillity in soil:	No data available			
Partition coefficient:	No data available			
n-octanol/water (log Pow)				
	No data available			
Soil adsorption (Koc):	No data available			
	No data available No data available			
Soil adsorption (Koc): Henry's Law:				
Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol) 13. DISPOSAL CONSIDERATIONS	No data available	s if nossible. It is the genera	tor's responsibility to co	omply with Federal. State and Local
Soil adsorption (Koc): Henry's Law: constant (PaM³/mol)	No data available Recycle to process rules and regulatic chemical incinerat assistance but doe regulatory complia	ns. You may be able to disc or equipped with an afterbui as not replace these laws, n nce according to the law. U 40 CFR Parts 261. The pro	solve or mix material wi rner and scrubber syste or does compliance in a S EPA guidelines for Id	omply with Federal, State and Local th a combustible solvent and burn in a am. This section is intended to provide accordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol) 13. DISPOSAL CONSIDERATIONS	No data available Recycle to process rules and regulatic chemical incinerat assistance but doo regulatory complia Waste are listed in water ways, or the	ns. You may be able to disc or equipped with an afterbui as not replace these laws, n nce according to the law. U 40 CFR Parts 261. The pro soil.	solve or mix material wi rner and scrubber syste or does compliance in a S EPA guidelines for Id oduct should not be allo	th a combustible solvent and burn in a am. This section is intended to provide accordance with this section ensure entification and Listing of Hazardous
Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol) <u>13. DISPOSAL CONSIDERATIONS</u> Disposal of product:	No data available Recycle to process rules and regulatio chemical incinerat assistance but doe regulatory complia Waste are listed in water ways, or the Dispose of as unu	ns. You may be able to disc or equipped with an afterbui as not replace these laws, n nce according to the law. U 40 CFR Parts 261. The pro	solve or mix material wi rner and scrubber syste or does compliance in a S EPA guidelines for Id oduct should not be allo empty containers.	th a combustible solvent and burn in a am. This section is intended to provide accordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol) 13. DISPOSAL CONSIDERATIONS Disposal of product: Disposal of container:	No data available Recycle to process rules and regulatio chemical incinerat assistance but doe regulatory complia Waste are listed in water ways, or the Dispose of as unu	ns. You may be able to disa or equipped with an afterbui as not replace these laws, n nce according to the law. U 40 CFR Parts 261. The pro soil. sed product. Do not re-use	solve or mix material wi rner and scrubber syste or does compliance in a S EPA guidelines for Id oduct should not be allo empty containers.	th a combustible solvent and burn in a am. This section is intended to provide accordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol) 13. DISPOSAL CONSIDERATIONS Disposal of product: Disposal of container: Other considerations: 14. TRANSPORT INFORMATION	No data available Recycle to process rules and regulatio chemical incinerat assistance but doe regulatory complia Waste are listed in water ways, or the Dispose of as unu	ns. You may be able to disa or equipped with an afterbui as not replace these laws, n nce according to the law. U 40 CFR Parts 261. The pro soil. sed product. Do not re-use	solve or mix material wi rner and scrubber syste or does compliance in a S EPA guidelines for Id oduct should not be allo empty containers.	th a combustible solvent and burn in a am. This section is intended to provide accordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
Soil adsorption (Koc): Henry's Law: constant (PaM³/mol) <u>13. DISPOSAL CONSIDERATIONS</u> Disposal of product: Disposal of container: Other considerations:	No data available Recycle to process rules and regulatio chemical incinerat assistance but doe regulatory complia Waste are listed in water ways, or the Dispose of as unu	ns. You may be able to disa or equipped with an afterbui as not replace these laws, n nce according to the law. U 40 CFR Parts 261. The pro soil. sed product. Do not re-use	solve or mix material wi rner and scrubber syste or does compliance in a S EPA guidelines for Id oduct should not be allo empty containers.	th a combustible solvent and burn in a am. This section is intended to provide accordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,

IATA

IMDG

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance 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:

-		
Health:	2	Health:
Flammability:	0	Flammability:
Instability:	0	Physical:

International Inventories

WHMIS hazard class: EC-No:

D2B: Materials causing other toxic effects. (Toxic) 254-203-6

HMIS Classification:

2 0 0

16. OTHER INFORMATION

Revision date: 11/10/2015

Revision number: 3

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.