

# TCI AMERICA SAFETY DATA SHEET

Revision number: 1 **Revision date: 07/06/2018** 

# 1. IDENTIFICATION

Product name: 4-Amino-3-hydrazino-5-mercapto-1,2,4-triazole [for Determination of Aldehydes]

Product code:

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

Company: TCI America

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

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Responsible department:

TCI America

Environmental Health Safety and Security

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## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Skin Corrosion/Irritation [Category 2]

WHMIS 2015: Eye Damage/Irritation [Category 2A]

Flammable Solids [Category 2]

Signal word: Warning!

Flammable solid Hazard Statement(s):

Causes skin irritation

Causes serious eye irritation

#### Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment.

Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. [Response]

If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or 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.

Hazards not otherwise classified:

[HNOC]

None.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: 4-Amino-3-hydrazino-5-mercapto-1,2,4-triazole [for Determination of Aldehydes]

Percent: >95.0%(T) 1750-12-5 CAS RN: Molecular Weight: 146.17 **Chemical Formula:**  $C_2H_6N_6S$ 

# 4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If

skin irritation or rash occurs: Get medical advice/attention.

Eye contact: 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/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Symptoms/effects:

Acute: Redness. No data available Delayed:

Indication of any immediate medical attention:

Not available. Notes to physician: No data available

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from the

chemical:

Hazardous combustion products:

Other specific hazards:

Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may

decompose upon combustion or in high temperatures to generate poisonous fume.

These products include: Carbon oxides Nitrogen oxides Sulfur oxides

Closed containers may explode from heat of a fire.

Wear self-contained breathing apparatus if possible. Advice for firefighters:

Combat fire from a sheltered position.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

**Environmental precautions:** 

Methods and materials for containment and cleaning up:

Prevention of secondary hazards:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Prevent product from entering drains.

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use

spark-proof tools and explosion-proof equipment.

# 7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Be careful not to

cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of

electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face

before breaks and immediately after handling the product. Use a local exhaust if dust or aerosol will be generated.

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Be sure not to give the container unexpected impacts, such as falling down or falling off.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires. Skin and body protection: Protective clothing. Protective boots, if the situation requires.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder
Colour: White - Almost white

Odour: Stench

Odor threshold:

Odour threshold:

No data available
No data available

No data available Melting point/freezing point: 240°C (dec.) (464°F) :Ha No data available Boiling point/range: Vapour pressure: No data available. **Decomposition temperature:** No data available Vapour density: No data available No data available **Dynamic Viscosity:** Relative density: No data available

Kinematic viscosity: No data available

Log Pow: No data available Evaporation rate(Butyl No data available

Acetate=1):

Flash point: No data available Autoignition temperature: No data available

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: No data available Upper: No data available

Solubility(ies):

[Water] No data available [Other solvents] No data available

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under proper conditions.

**Possibility of hazardous reactions:**May explosively decompose on heating, shock, friction, etc.
Conditions to avoid:
May explosively decompose on heating, shock, friction, etc.
Heat, Spark, Open flame, Static discharge, Shock, Friction

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Sulfur oxides

# 11. TOXICOLOGICAL INFORMATION

# 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

Target organ(s): No data available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

No data available Fish: No data available Crustacea: No data available Algae:

Persistence / degradability: Bioaccumulative potential(BCF):

Mobility in soil

No data available No data available

Log Pow:

No data available Soil adsorption (Koc): No data available Henry's Law (PaM 3/mol): 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 and Local rules and regulations. Consult an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

# 14. TRANSPORT INFORMATION

DOT (US)

**UN number: Proper Shipping Name:** UN1325

Class or Division:

**Packing Group:** 

Flammable solids, organic, n.o.s

4.1 Flammable solid

IATA

**UN number:** Proper Shipping Name: UN1325 Flammable solid, organic, n.o.s Class or Division: 4.1 Flammable solid **Packing Group:** 

IMDG

UN1325

**Proper Shipping Name:** 

**Class or Division:** 4.1 Flammable solid **Packing Group:** 

numb

Flammable solid, organic, n.o.s

EmS number: F-A, S-G

## 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 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: **HMIS Classification:** Health: Health: 2 2 Flammability: Flammability: 1 Instability: Physical: 0

#### **International Inventories**

Canada: NDSL On NDSL EC-No: 217-135-8

# 16. OTHER INFORMATION

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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.