

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

1. IDENTIFICATION

Product name: Product code: 2,2,6,6-Tetramethyl-4-piperidone T1424

For laboratory research purposes.

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:

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Harmful if swallowed

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. 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

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: Substance 2,2,6,6-Tetramethyl-4-piperidone >98.0%(T)

Not for drug or household use.

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SAFETY DATA SHEET

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

Emergency procedures:

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|---|--|---|
| 3. COMPOSITION/INFORMATION | ON INGREDIENTS | |
| CAS Number: | 826-36-8 | |
| Molecular Weight: | 155.24 | |
| Chemical Formula: | C ₉ H ₁₇ NO | |
| Synonyms: | Triacetonamine | |
| 4. FIRST-AID MEASURES | | |
| Inhalation: | Call a poison center or doctor if you feel unwell. Move victim is not breathing. Administer oxygen if breathing is difficult. Ke symptomatically and supportively. Ensure that medical perso take precautions to protect themselves. | eep victim warm and quiet. Treat |
| Skin contact: | Call a poison center or doctor if you feel unwell. Remove and Remove and isolate contaminated clothing and shoes. In cas flush skin with running water for at least 20 minutes. Treat sy | se of contact with substance, immediately ymptomatically and supportively. Ensure that |
| Eye contact: | medical personnel are aware of the material(s) involved and IMMEDIATELY flush eyes with running water for at least 15 material may irritate or burn eyes. Call emergency medical s remove any contact lenses. Keep victim warm and quiet. Tre exposure to substance may be delayed. Ensure that medical | minutes, keeping eyelids open. Contact with ervice. Move victim to fresh air. Check for an eat symptomatically and supportively. Effects |
| Ingestion: | involved and take precautions to protect themselves. Harmful if swallowed. Do not induce vomiting with out medica immediately and show the container or label. Do not use more substance; give artificial respiration with the aid of a pocket re proper respiratory medical device. Loosen tight clothing such vomits place them in the recovery position so that vomit will a Keep victim warm and quiet. Treat symptomatically and supp aware of the material(s) involved and take precautions to pro- | uth-to-mouth method if victim ingested the mask equipped with a one-way valve or other n as a collar, tie, belt or waistband. If a persor not reenter the mouth and throat. Rinse mout portively. Ensure that medical personnel are |
| Symptoms/effects: | | |
| Acute: | Redness. | |
| Delayed: | No data available | |
| Immediate medical attention: | WARNING: It might be hazardous to the person providing aid the inhaled material is harmful. If breathing has stopped, per treatment according to the nature of the injury. Ensure that m involved and take precautions to protect themselves. | form artificial respiration. Use first aid |
| 5. FIRE-FIGHTING MEASURES | | |
| Suitable extinguishing media: | Dry chemical, CO ₂ , sand, earth, water spray or regular foam attempting large scale fire fighting operations. | Consult with local fire authorities before |
| | attempting large scale me fighting operations. | |
| Specific hazards arising from the che | | |
| Hazardous combustion products: Other specific hazards: | These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire. | |
| Special precautions for fire-fighters: | | |
| | | r the material. Containers may explode when |
| Wear positive pressure self-contained br | eathing apparatus (SCBA). Structural fire fighters' protective cloth ations. Wear chemical protective clothing which is specifically reco | ing provides limited protection in fire situatior ommended by the manufacturer. It may |
| 6. ACCIDENTAL RELEASE MEAS | URES | |
| Personal precautions: | Avoid contact with skin, eyes, and clothing. Keep people awa | |
| Personal protective equipment: | damaged containers or spilled material unless wearing appro unnecessary personnel to move away. Stop leak if you can o Isolate the hazard area and deny entry to unnecessary and u Wear eye protection (splash goggles) and face protection (fu respirator. Be sure to use a MSHA/NIOSH approved respirat | do it without risk. Ensure adequate ventilation unprotected personnel. Ill length face shield). Lab coat. Dust |

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).

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 sewers, basements or confined areas; dike if needed.

6. ACCIDENTAL RELEASE MEASURES

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:**

Keep away from living quarters. 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: | Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilatio 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. |
| 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). Store in refrigerator. |
| Storage incompatibilities: | Acids, 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: | Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. |
| Hand protection: | Nitrile gloves. |
| Eye protection: | Safety glasses. |
| Skin and body protection: | Lab coat. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state (20°C): Form: Color: Odor: Odor threshold: | Solid Crystal - Powder Very pale yellow - Yellow red No data available No data available | | |
|--|--|--|--|
| Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity: | 38°C (100°F) 105°C (221°F)/2.4kPa 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 Pow) | No data available | Evaporation rate: (Butyl Acetate = 1) | No data available |
| Flash point: Flammability (solid, gas): | 73°C (163°F) No data available | | No data available nits: a available a available |

Solubility(ies):

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available **TCI AMERICA**

11. TOXICOLOGICAL INFORMATION

RTECS Number: TO0127900

| Acute Toxici orl-rat LD50:1 | | | ipr-rat LD50:385 | mg/kg | |
|---|--|--|--|--|--|
| Skin corrosi No data avail | | | | | |
| Serious eye No data avail | damage/irritation: able | | | | |
| Respiratory No data avail | or skin sensitization: able | | | | |
| Germ cell m No data avail | | | | | |
| Carcinogeni | city: | | | | |
| No data avail | able | | | | |
| IARC: | No data available | NTP: | No data available | OSHA: | No data available |
| Reproductiv No data avail | | | | | |
| Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact. Symptoms related to exposure: Overexposure may result in serious illness or death. Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. Skin contact may result in redness, pain or dry skin. Eye contact may result in redness or pain. Potential Health Effects: Potential Health Effects | | | | | |
| Target organ | contact may result in irritation. n(s): | No data available | | | |
| 12. ECOLO | GICAL INFORMATION | | | | |
| Ecotoxicity Fish: Crust Algae | acea: | No data available No data available No data available | | | |
| | efficient: ater (log P _{ow}) ion (Koc): : | No data available No data available No data available No data available No data available No data available | | | |
| | SAL CONSIDERATIONS | | | | |
| Disposal of | product: | rules and regulation chemical incinerate assistance but doer regulatory compliant | ns. You may be able to disso or equipped with an afterburn s not replace these laws, no noce according to the law. US 40 CFR Parts 261. The proc | olve or mix material with her and scrubber system r does compliance in a EPA guidelines for Ide | mply with Federal, State and Local in a combustible solvent and burn in a m. This section is intended to provide ccordance with this section ensure entification and Listing of Hazardous ved to enter the environment, drains, |
| Disposal of Other consid | | Dispose of as unus | ed product. Do not re-use en , state and local regulations | | substance. |
| 14. TRANS | PORT INFORMATION | | | | |

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14. TRANSPORT INFORMATION DOT (US)

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IMDG

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 an | nd 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

N

| NFPA Rating: | | HMIS Classification: | | |
|--------------------|---------|---|---|--|
| Health: | 2 | Health: | 2 | |
| Flammability: | 2 | Flammability: | 2 | |
| Instability: | 0 | Physical: | 0 | |
| International Inve | ntories | | | |
| WHMIS hazard cla | ass: | D2A: Materials causing other toxic effects. (Very Toxic) D2B: Materials causing other toxic effects. (Toxic) | | |
| EC-No: | | 212-554-2 | | |

16. OTHER INFORMATION

Revision date: 10/17/2016

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.