

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

1. IDENTIFICATION

Product name: Product code:

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: WHMIS 2015:

Signal word:

Hazard Statement(s):

Toxic if swallowed, in contact with skin or if inhaled Causes skin irritation Causes serious eye irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC] 3-(Dicyanomethylidene)indan-1-one D2054

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SAFETY DATA SHEET

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

Acute Toxicity - Oral [Category 3] Acute Toxicity - Dermal [Category 3] Acute Toxicity - Inhalation [Category 3]

Acute Toxicity - Inhalation [Category 3] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Danger!

Avoid breathing dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, eye protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. 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.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

None.

Page 1 of 5

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance/mixture: | Substance |
|--------------------|---|
| Components: | 3-(Dicyanomethylidene)indan-1-one |
| Percent: | >98.0%(GC) |
| CAS RN: | 1080-74-6 |
| Molecular Weight: | 194.19 |
| Chemical Formula: | C ₁₂ H ₆ N ₂ O |

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. Call a POISON | | | |
| Skin contact: | CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. | | | |
| | Call a POISON CENTER or doctor/physician. | | | |
| 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: | Immediately call a POISON CENTER or doctor/physician. Rinse mouth. | | | |
| Symptoms/effects: | | | | |
| Acute: | Redness. | | | |
| Delayed: | No data available | | | |
| Indication of any immediate medical attending to the second secon | ention: | | | |
| Notes to physician: | | | | |
| No data available | | | | |
| 5. FIRE-FIGHTING MEASURES | | | | |
| Suitable extinguishing media: | Dry chemical, foam, water spray, carbon dioxide. | | | |
| Hazardous combustion products: | These products include: Carbon oxides Nitrogen oxides | | | |
| Other specific hazards: | Closed containers may explode from heat of a fire. | | | |
| A duine for finalishtene | Wear calf contained breathing apparetus if peacible | | | |
| Advice for firefighters: | Wear self-contained breathing apparatus if possible. | | | |
| 6. ACCIDENTAL RELEASE MEASU | RES | | | |
| Personal precautions, protective | Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to | | | |
| equipment and emergency procedures: | non-involved personnel should be controlled around the leakage area by roping off, etc. | | | |
| Environmental precautions: | Prevent product from entering drains. | | | |
| Methods and materials for containment and cleaning up: | 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. | | | |
| and cleaning up. | | | | |
| 7. HANDLING AND STORAGE | | | | |
| Precautions for safe handling: | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent | | | |
| r recautions for sale nanuling. | dispersion of dust. Wash hands and face thoroughly after handling. | | | |
| | Use a closed system if possible. 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, dark and well-ventilated place. | | | | |
| Storage conditions. | Store locked up. | | | |
| | Store away from incompatible materials such as oxidizing agents. | | | |
| | Light-sensitive | | | |
| Packaging material: | Comply with laws. | | | |
| 8. EXPOSURE CONTROLS / PERSC | NAL PROTECTION | | | |
| | | | | |
| Appropriate engineering controls: | Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed | | | |
| Appropriate engineering controls: | system or local exhaust. Also install safety shower and eye bath. | | | |
| | | | | |
| Personal protective equipment | Dust mentioned by the sector of the sector (CODA) supplied air mentions to the sector of the | | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| 7. THISICKE KIND CHEMICA | LIKO | I ERITES | | | | |
|---|-------------------|---|-----------------------------------|--------------------|--|--|
| Physical state (20°C): Form: Colour: | | Solid Crystal - Powder Very pale yellow - Yello | ow red | | | |
| Odour: | | No data available | | | | |
| Odor threshold: | | No data available | | | | |
| Odour threshold: | | No data available | | | | |
| Melting point/freezing point: | 228°C | C (442°F) | pH: | No data available | | |
| Boiling point/range: | No data available | | Vapour pressure: | No data available. | | |
| Decomposition temperature: | | ata available | Vapour density: | No data available | | |
| Relative density: | No data available | | Dynamic Viscosity: | No data available | | |
| Kinematic viscosity: | No data available | | Dynamic viscosity. | | | |
| Log Pow: | | ata available | Evaporation rate(Butyl | No data available | | |
| Log Fow. | NU UZ | | Acetate=1): | | | |
| Flash point: | | ata available | Autoignition temperature: | No data available | | |
| Flammability(solid, gas): | No da | ata 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 REACT | IVITY | | | | | |
| | | | | | | |
| Reactivity: | | No data available | | | | |
| Chemical stability: | | Stable under proper cor | | | | |
| Possibility of hazardous reaction | ons: | No special reactivity has | s been reported. | | | |
| Incompatible materials: | | Oxidizing agents | | | | |
| Hazardous decomposition proc | lucts: | Carbon monoxide, carb | on dioxide etc | | | |
| 11. TOXICOLOGICAL INFOR | RMATIO | N | | | | |
| | | | | | | |
| | | | | | | |
| Acute Toxicity: No data available | | | | | | |
| | | | | | | |
| Skin corrosion/irritation: No data available | | | | | | |
| Serious eye damage/irritation: | | | | | | |
| No data available | | | | | | |
| Respiratory or skin sensitizatio No data available | n: | | | | | |
| Germ cell mutagenicity: No data available | | | | | | |
| Carcinogenicity: | | | | | | |
| No data availabla | | | | | | |

No data available

IARC: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

OSHA:

No data available

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12. ECOLOGICAL INFORMATION

| Ecotoxicity: | |
|--|---|
| Fish: | No data available |
| Crustacea: | No data available |
| Algae: | No data available |
| Persistence / degradability: | No data available |
| Bioaccumulative potential (BCF): Mobility in soil | 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. 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. 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. |

Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

Disposal of container: Other considerations:

14. TRANSPORT INFORMATION

DOT (US) UN number: Proper Shipping Name: Class or Division: Packing Group: UN2811 Toxic solids, organic, n.o.s 6.1 Toxic material. Ш IATA Proper Shipping Name: Toxic solid, organic, n.o.s UN number: Class or Division: Packing Group: UN2811 6.1 Toxic material. ш IMDG UN Proper Shipping Name: Class or Division: UN2811 Packing Group: numb Toxic solid, organic, n.o.s 6.1 Toxic material. Ш er: EmS number: F-A, S-A

15. REGULATORY INFORMATION

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

| Not Listed |
|------------|
| Not Listed |
| Not Listed |
| Not Listed |
| |

Other Information

NFPA Rating: Health: 2 Flammability: 0 Instability: 0

HMIS Classification: Health: 2 Flammability: 0 Physical: 0

International Inventories

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

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.