

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

Erucic Acid D0965

For laboratory research purposes. 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

2. HAZARD(S) IDENTIFICATION

| OSHA Haz Com: CFR 1910.1200: |
|------------------------------|
| WHMIS 2015: |
| |

Signal word:

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

Warning!

Hazard Statement(s):

Causes skin irritation Causes serious eye irritation

Pictogram(s) or Symbol(s):



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

Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. 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: | Erucic Acid |
| Percent: | >85.0%(GC) |
| CAS RN: | 112-86-7 |
| Molecular Weight: | 338.58 |
| Chemical Formula: | C22H42O2 |
| Synonyms: | cis-13-Docosenoic Acid |

| 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 | | |
| Skin contact: | advice/attention if you feel unwell. 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. Get medical advice/attention if you feel unwell. Rinse mouth. | | |
| Ingestion: | | | |
| Symptoms/effects: | | | |
| Acute: | Redness. | | |
| Delayed: | No data available | | |
| Indication of any immediate medical attention of attention of any immediate medical attention of any immediate medical attention of att | ention: | | |
| Notes to physician: | | | |
| No data available | | | |
| 5. FIRE-FIGHTING MEASURES | | | |
| Suitable extinguishing media: | Dry chemical, foam, water spray, carbon dioxide. | | |
| Suitable extinguishing media. | Dry chemical, idam, water spray, carbon dioxide. | | |
| Hazardous combustion products: Other specific hazards: | These products include: Carbon oxides Closed containers may explode from heat of a fire. | | |
| other specific hazards. | | | |
| Advice for firefighters: | Wear self-contained breathing apparatus if possible. | | |
| 6. ACCIDENTAL RELEASE MEASU | RES | | |
| Personal precautions, protective equipment and emergency procedures: | 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. | | |
| 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. | | |
| Methods and materials for containment | Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected | | |
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| Methods and materials for containment and cleaning up: 7. HANDLING AND STORAGE Precautions for safe handling: Conditions for safe storage, including an Storage conditions: Packaging material: 8. EXPOSURE CONTROLS / PERSO | 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. Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. ny incompatibilities Keep container tightly closed. Store in a refrigerator. Store under inert gas. Store away from incompatible materials such as oxidizing agents. Heat-sensitive Air-sensitive Comply with laws. NAL PROTECTION | | |
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| Methods and materials for containment and cleaning up: 7. HANDLING AND STORAGE Precautions for safe handling: Conditions for safe storage, including a Storage conditions: Packaging material: 8. EXPOSURE CONTROLS / PERSO Appropriate engineering controls: Personal protective equipment Respiratory protection: Hand protection: | 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. Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. ny incompatibilities Keep container tightly closed. Store in a refrigerator. Store under inert gas. Store away from incompatible materials such as oxidizing agents. Heat-sensitive Air-sensitive Comply with laws. NAL PROTECTION Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. Dust respirator. Follow local and national regulations. Protective gloves. | | |
| Methods and materials for containment and cleaning up: 7. HANDLING AND STORAGE Precautions for safe handling: Conditions for safe storage, including at Storage conditions: Packaging material: 8. EXPOSURE CONTROLS / PERSO Appropriate engineering controls: Personal protective equipment Respiratory protection: | 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. Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. ny incompatibilities Keep container tightly closed. Store in a refrigerator. Store under inert gas. Store away from incompatible materials such as oxidizing agents. Heat-sensitive Air-sensitive Comply with laws. NAL PROTECTION Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. | | |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold: | Solid Crystal - Lump White - Slightly pale yellow No data available No data available No data available | | |
|--|---|---|--|
| Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow: | 30°C (Freezing point) (86°F) No data available No data available No data available No data available No data available | pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1): | No data available No data available. No data available No data available No data available |
| Flash point: Flammability(solid, gas): | No data available No data available | Autoignition temperature: Flammability or explosive limits: Lower: Upper: | No data available No data available No data available |
| Solubility(ies): [Water] [Other solvents] Very soluble: | Insoluble Methanol, Ether, Ethanol | | |

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Bases, Reducing agents Carbon dioxide, Carbon monoxide

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

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 |
| 5.00 | |
| Persistence / degradability: | No data available |
| Bioaccumulative potential(BCF): | No data available |
| Mobility in soil | |
| 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. |
| 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) | Non-hazardous for transportation. |
| IATA | Non-hazardous for transportation. |
| IMDG_ | Non-hazardous for transportation. |

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15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

| US Federal Regu | lations | | | | |
|---|------------|------------|----------------------|--|--|
| CERCLA Hazardous substance and Reportable Quantity: | | | | | |
| SARA 313: | | Not Listed | | | |
| SARA 302: | | Not Listed | | | |
| State Regulations | <u>8</u> | | | | |
| State Right-to-Kn | ow | | | | |
| Massachuset | ts | Not Listed | | | |
| New Jersey | | Not Listed | | | |
| Pennsylvania | 1 | Not Listed | | | |
| California Propos | sition 65: | Not Listed | | | |
| Other Information | <u>1</u> | | | | |
| NFPA Rating: | | | HMIS Classification: | | |
| Health: | 2 | | Health: | | |
| Flammability: | 1 | | Flammability: | | |
| Instability: | 0 | | Physical: | | |
| International Inventories | | | | | |
| Canada: DSL | | On DSL | | | |
| EC-No: | | 204-011-3 | | | |

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.