

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):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC] 3-Buten-1-ol B0236

For laboratory research purposes. Not for drug or household use.

TCI AMERICA

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

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Flammable Liquids [Category 3]

Warning!

Flammable liquid and vapor Harmful if swallowed Causes skin irritation Causes serious eye irritation

Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. 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. In case of fire: Use dry chemical, dry sand or foam to extinguish. Store in a well-ventilated place. Keep cool.

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.

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TCI AMERICA

3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS RN: 627-27-0 Molecular Weight: 72.11 Chemical Formula: C4H8O | Substance/mixture: Components: Percent: | Substance 3-Buten-1-ol >98.0%(GC) |
|--|---|---|
| | CAS RN: | 627-27-0 |
| | | |

4. FIRST-AID MEASURES

| 4. TINGT-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: | Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. | | |
| Symptoms/effects: | | | |
| Acute: | Redness. | | |
| Delayed: | No data available | | |
| Indication of any immediate medical attended to the second | ention: | | |
| Notes to physician: | | | |
| No data available | | | |
| 5. FIRE-FIGHTING MEASURES | | | |
| 5. TIKE TIOTTING MEASURES | | | |
| Suitable extinguishing media: | Dry chemical, foam, carbon dioxide. | | |
| Unsuitable extinguishing media: | Water (It may scatter and spread fire.) | | |
| Hazardous combustion products: | These products include: Carbon oxides | | |
| Other specific hazards: | Closed containers may explode from heat of a fire. | | |
| Advice for firefighters: | Wear self-contained breathing apparatus if possible. | | |
| 6. ACCIDENTAL RELEASE MEASU | RES | | |
| Personal precautions, protective equipment and emergency procedures: | Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. 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: | | | |
| U 1 | promptly disposed of, in accordance with appropriate laws and regulations. | | |
| Prevention of secondary hazards: | 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. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Tak measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated Avoid contact with skin, eyes and clothing. | | |

| Avoid contact with skin, cycs and clothing. |
|---|
| ny incompatibilities |
| Keep container tightly closed. Store in a cool, dark and well-ventilated place. |
| Store away from incompatible materials such as oxidizing agents. |
| 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: | Vapor 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): Form: Colour: Odour: Odor threshold: Odour threshold: | Liquid Clear Colorless - Almost colorles No data available No data available No data available | 35 | |
|---|---|--|--------------------|
| Melting point/freezing point: | No data available | pH: | No data available |
| Boiling point/range: | 114°C (237°F) | Vapour pressure: | No data available. |
| Decomposition temperature: | No data available | Vapour density: | No data available |
| Relative density: | 0.85 | Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available | | |
| Log Pow: | No data available | Evaporation rate(Butyl Acetate=1): | No data available |
| Flash point: Flammability(solid, gas): | 33°C (91°F) No data available | Autoignition temperature: Flammability or explosive limits: | No data available |
| | | Lower: | No data available |
| | | Upper: | No data available |
| Solubility(ies): [Water] [Other solvents] | Insoluble | | |
| Soluble: | Many organic solvents | | |

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents, Strong acids Carbon dioxide, Carbon monoxide

| 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: | | | | |
| 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: | Local rules and re and burn in a cher intended to provid with this section e Identification and I | gulations. You may be able t nical incinerator equipped wi e assistance but does not re nsure regulatory compliance | to dissolve or mix ma th an afterburner and place these laws, non according to the law are listed in 40 CFR I | Parts 261. The product should not |

Disposal of container: Other considerations: 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.

14. TRANSPORT INFORMATION

| <u>DOT (US)</u> UN number: UN1987 | Proper Shipping Name: Alcohols, n.o.s | Class or Division: 3 Flammable liquid | Packing Group: III |
|---|---|---|-----------------------|
| IATA UN number: UN1987 | Proper Shipping Name: Alcohols, n.o.s | Class or Division: 3 Flammable liquid | Packing Group: III |
| IMDG UN UN1987 numb er: | Proper Shipping Name: Alcohols, n.o.s | Class or Division: 3 Flammable liquid | Packing Group: III |
| EmS number: | F-E, S-D | | |

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

| US Federal Regul | ations | | | |
|--------------------|--------------|-----------------------------|----------------------|---|
| CERCLA Hazardo | ous substand | ce and Reportable Quantity: | | |
| SARA 313: | | Not Listed | | |
| SARA 302: | | Not Listed | | |
| State Regulations | <u>5</u> | | | |
| State Right-to-Kn | ow | | | |
| Massachuset | ts | Not Listed | | |
| New Jersey | | Not Listed | | |
| Pennsylvania | 1 | Not Listed | | |
| California Propos | ition 65: | Not Listed | | |
| Other Information | <u>ı</u> | | | |
| NFPA Rating: | | | HMIS Classification: | |
| Health: | 2 | | Health: | į |
| Flammability: | 3 | | Flammability: | |
| Instability: | 0 | | Physical: | |
| International Inve | entories | | | |
| Canada: NDSL | | On NDSL | | |
| EC-No: | | 210-991-3 | | |
| | | | | |

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.

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