

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

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

| Product name: Product code: | N-(tert-Butoxycarbonyl)-1,2-diaminoethane A1371 | |
|---|--|---|
| Product use: Restrictions on use: | For laboratory research purposes. Not for drug or household 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 | | 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: | Eye Damage/Irritation [Category 1] Skin Corrosion/Irritation [Category 1C] | |
| Signal word: | Danger! | |
| Hazard Statement(s): | Causes severe skin burns and eye damage | |
| Pictogram(s) or Symbol(s): | | |
| Precautionary Statement(s): [Prevention] | Do not breathe dusts or mists. Wash hands and face | thoroughly after handling. Wear protective gloves, |
| [Response] | protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately 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. Immediately call a poison center or doctor. | |
| [Storage] [Disposal] | Store locked up. Dispose of contents and container in accordance with CFR Part 261, EU:91/156/EEC, JP: Waste Disposal a | local, regional, national regulations (e.g. US: 40 |
| Hazards not otherwise classified: [HNOC] | None. | |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Substance N-(tert-Butoxycarbonyl)-1,2-diaminoethane >97.0%(GC) 57260-73-8 160.22 C7H16N2O2 N-(2-Aminoethyl)carbamic Acid tert-Butyl Ester , N-(tert-Butoxycarbonyl)-1,2-ethylenediamine , N-Boc-1,2-diaminoethane , N-Boc-ethylenediamine , tert-Butyl N-(2-Aminoethyl)carbamate

| 4. FIRST-AID MEASURES | | |
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| | | |
| Description of first aid measures | Pamaya vistim to freeh air and keep at reat in a position comfartable for breathing. Immediately call a | |
| Inhalation: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. | |
| Skin contact: | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately 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.Immediately call a POISON CENTER or doctor/physician. | |
| Ingestion: | Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. | |
| Symptoms/effects: | | |
| Acute: | Pain. Redness. | |
| Delayed: | No data available | |
| Indication of any immediate medical atte | ention: | |
| Not available. | | |
| Notes to physician: No data available | | |
| 5. FIRE-FIGHTING MEASURES | | |
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| Suitable extinguishing media: | Dry chemical, foam, water spray, carbon dioxide. | |
| Unsuitable extinguishing media: | Solid streams of water | |
| Specific hazards arising from the | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. | |
| chemical: | These and usta include. Cash an avidea Nitranan avidea | |
| Hazardous combustion products: Other specific hazards: | These products include: Carbon oxides Nitrogen oxides 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 personal protective equipment. 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 | Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large | |
| and cleaning up: | amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. | |
| 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. 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. | |
| Conditions for safe storage, including a | ny incompatibilities | |
| Storage conditions: | Keep container tightly closed. Store in a cool and dark place. | |
| | Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. | |
| | Air-sensitive | |
| Packaging material: | Comply with laws. | |
| 8. EXPOSURE CONTROLS / PERSC | NAL PROTECTION | |
| | | |
| Appropriate opgingering controls | Follow acts industrial analyzering/laboratory practices when handling any shamical limits? | |
| 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 | |
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| Respiratory protection: | Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. |
| Hand protection: | Impervious gloves. |
| Eye protection: | Safety goggles. A face-shield, if the situation requires. |
| Skin and body protection: | Impervious protective clothing. Protective boots, if the situation requires. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|--|---|---|--|
| Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold: | Liquid Clear Colorless - Slightly p. No data available No data available No data available | ale yellow | |
| Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow: | No data available 105°C /2.7kPa (221°F) No data available 1.01 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] | No data available No data available | | |
| 10. STABILITY AND REACTI | IVITY | | |
| Reactivity: Chemical stability: Possibility of hazardous reactio Incompatible materials: Hazardous decomposition prod | Oxidizing agents, Stro | has been reported. | |
| 11. TOXICOLOGICAL INFOR | RMATION | | |
| 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 | n: | | |
| Germ cell mutagenicity: No data available | | | |
| Carcinogenicity: No data available | | | |
| IARC: No data available Reproductive toxicity: No data available | NTP: No | o data available OSHA | : 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: | 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: Other considerations: | 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

| DOT (US) UN number: UN2735 | Proper Shipping Name: Polyamines, liquid, corrosive, n.o.s | Class or Division: 8 Corrosive material | Packing Group: III |
|----------------------------------|--|---|-----------------------|
| IATA_ UN number: UN2735 | Proper Shipping Name: Polyamines, liquid, corrosive, n.o.s | Class or Division: 8 Corrosive material | Packing Group: III |
| IMDG UN UN2735 numb er: | Proper Shipping Name: Polyamines, liquid, corrosive, n.o.s | Class or Division: 8 Corrosive material | Packing Group: III |
| EmS number: | F-E, S-B | | |

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.

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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:** Health: 3

| HMIS Classification: | |
|----------------------|---|
| Health: | 3 |
| Flammability: | 1 |
| Physical: | 0 |
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International Inventories

Flammability:

Instability:

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.