

Revision number: 1 Revision date: 02/21/2020

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

TCI AMERICA

SAFETY DATA SHEET

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

2PACz

C3663

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:

Hazard Statement(s):

Eye Damage/Irritation [Category 2A] Warning!

Skin Corrosion/Irritation [Category 2]

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: |
|--------------------|
| Components: |
| Percent: |
| CAS RN: |
| Molecular Weight: |
| Chemical Formula: |
| Synonyms: |

Substance 2PACz >98.0%(HPLC)(T) 20999-38-6 275.24 C14H14NO3P [2-(9H-Carbazol-9-yl)ethyl]phosphonic Acid

Skin and body protection:

| 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 advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. I skin irritation or rash occurs: Get medical advice/attention. | | | |
| Skin contact: | | | | |
| 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: | Get medical advice/attention if you feel unwell. Rinse mouth. | | | |
| ymptoms/effects: | | | | |
| Acute: Delayed: | No data available No data available | | | |
| ndication of any immediate medical atte | | | | |
| Not available. | | | | |
| Notes to physician: No data available | | | | |
| 5. FIRE-FIGHTING MEASURES | | | | |
| Suitable extinguishing media: | Dry chemical, foam, water spray, carbon dioxide. | | | |
| pecific hazards arising from the | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fund | | | |
| hemical: | | | | |
| Hazardous combustion products: Dther specific hazards: | These products include: Carbon oxides Nitrogen oxides Phosphates 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: Environmental precautions: | 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. Prevent product from entering drains. | | | |
| | 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. | | | |
| 7. HANDLING AND STORAGE | | | | |
| Precautions for safe handling: | 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. | | | |
| Conditions for safe storage, including a | Avoid contact with skin, eyes and clothing. | | | |
| Storage conditions: | Keep container tightly closed. Store in a cool and dark place. | | | |
| D eclarity matrix | Store under inert gas. Store away from incompatible materials such as oxidizing agents. Light-sensitive Air-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 system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath. | | | |
| Personal protective equipment | | | | |
| Respiratory protection: | Dust respirator. Follow local and national regulations. | | | |
| Hand protection: Eye protection: | Protective gloves. Safety glasses. A face-shield, if the situation requires. | | | |
| Skin and body protection: | Protective clothing, Protective boots, if the situation requires. | | | |

Protective clothing. Protective boots, if the situation requires.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state (20°C): | Solid | | |
|-------------------------------|-------------------|-----------------------------------|--------------------|
| Form: | Crystal - Powder | | |
| Colour: | White - Pale blue | | |
| Odour: | No data available | | |
| Odor threshold: | No data available | | |
| Odour threshold: | No data available | | |
| Odour threshold: | No data avaliable | | |
| Melting point/freezing point: | 231°C (448°F) | pH: | No data available |
| Boiling point/range: | No data available | Vapour pressure: | No data available. |
| Decomposition temperature: | No data available | Vapour density: | No data available |
| Relative density: | No data available | Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available | | |
| Log Pow: | No data available | Evaporation rate(Butyl | No data available |
| | | Acetate=1): | |
| Flash point: | No data available | Autoignition temperature: | No data available |
| Flammability(solid, gas): | No data available | Flammability or explosive limits: | |
| | | Lower: | No data available |
| | | Upper: | No data available |
| Solubility(ies): | | oppon | |
| [Water] | No data available | | |
| [Other solvents] | No data available | | |
| [ettici serventa] | | | |
| 10. STABILITY AND REACT | IVITY | | |
| Reactivity: | No data available | | |
| | | 1141 | |

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 Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Phosphorus oxides

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

IMDG

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12. ECOLOGICAL INFORMATION

| Ecotoxicity: Fish: Crustacea: Algae: | No data available No data available No data available |
|---|---|
| Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil | No data available No data available |
| Log Pow: | No data available |
| Soil adsorption (Koc): Henry's Law (PaM ³/mol): | No data available 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 |
| Disposal of container: | be allowed to enter the environment, drains, water ways, or the soil. 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. |

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:

Non-hazardous for transportation.

(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 Regulation | IS | | | | | | |
| State Right-to-K | | | | | | | |
| Massachuse | etts | Not Listed | | | | | |
| New Jersey | | Not Listed | | | | | |
| Pennsylvani | ia | Not Listed | | | | | |
| California Propo | sition 65: | Not Listed | | | | | |
| Other Informatio | on | | | | | | |
| NFPA Rating: | | | HMIS Classification: | | | | |
| Health: | 2 | | Health: | | | | |
| Flammability: | 0 | | Flammability: | | | | |
| Instability: | 0 | | Physical: | | | | |

International Inventories

16. OTHER INFORMATION

Revision date: 02/21/2020 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.