

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** T8EP
Product Name: T8E Paste
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses: Anti-Seize Paste
- 1.3 Details of the Supplier of the Safety Data Sheet:**
Company Name: TIODIZE CO, INC.
5858 ENGINEER DRIVE
HUNTINGTON BEACH, CA 92649 United States of America
Web site address: tiodize.com
Email address: tiodize@tiodize.com
Information: 1-813-248-0585 International
Preparer Name: Leo Ortiz
- 1.4 Emergency telephone number:**
Emergency Contact: 1-800-255-3924 (U.S. & Canada)

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
Flammable Liquids, Category 2
Toxic To Reproduction, Category 1B

2.2 Label Elements:



GHS Signal Word: Danger

GHS Hazard Phrases:

H225 - Highly flammable liquid and vapor.

H360 - May damage fertility or the unborn child .

GHS Precautionary Phrases:

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P308+313 - IF exposed or concerned: Get medical attention/advice.

GHS Storage and Disposal Phrases:

P501 - Dispose of contents/container to ...

P405 - Store locked up.

2.3 Adverse Human Health No data available.

Effects and Symptoms:

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7732-18-5	Water na	32.0 -40.0 %	231-791-2 NA	No GHS classifications apply.
64-17-5	Ethanol 01-2119457610-43	19.0 -25.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225
NA	Barium Compounds	2.0 -5.0 %	NA NA	No data available.
NA	Boron and compounds	3.0 -8.0 %	NA NA	Toxic Repro. 2: H361 Aquatic (C) 3: H412
NA	Tellurium compounds	5.0 -10.0 %	NA NA	No data available.
NA	Molybdenum and compounds	7.0 -13.0 %	NA NA	No data available.
872-50-4	N-Methyl-2-pyrrolidone 01-2119472430-46	0.25 -0.5 %	212-828-1 606-021-00-7	Toxic Repro. 1B: H360D STOT (SE) 3: H335 Skin Corr. 2: H315 Eye Damage 2: H319

Section 4. First Aid Measures

4.1 Description of First Aid

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

In Case of Skin Wash with plenty of soap and water.

Contact:

In Case of Eye Flush eye with water for 15 minutes. Get medical attention.

Contact:

In Case of Ingestion: If swallowed, do not induce vomiting unless directed by medical personnel, keep warm, quiet and get medical attention.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

Unsuitable Extinguishing Media: Water jet.

5.2 Flammable Properties and Hazards: No data available.

No data available.

Flash Pt: 265.00 C Method Used: Cleveland Open Cup

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: Wear self contained breathing apparatus for fire fighting if necessary.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions,** Rubber gloves. Safety glasses.
Protective Equipment and Emergency Procedures:
- 6.2 Environmental Precautions:** Prevent further leakage or spillage if safe to do so.
- 6.3 Methods and Material For Containment and Cleaning Up:** Keep unnecessary personnel away. Remove all sources of ignition. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment
And clothing during clean-up. Do not touch damaged containers or spilled material unless Wearing appropriate protective clothing.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid contact with skin and clothing. Avoid contact with eyes. Use only with adequate ventilation. Avoid breathing vapor or mist. Wash hands after handling and before eating or smoking. Shower after work and wash contaminated clothing promptly.
- 7.2 Precautions To Be Taken in Storing:** Keep containers tightly closed. Keep containers in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
64-17-5	Ethanol	ACGIH TLV	TLV: 1000 ppm STEL: 1000 ppm	
		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	
NA	Tellurium compounds	ACGIH TLV	TLV: 0.1 mg/m3	
		France VL	TWA: 0.1 mg/m3	
		OSHA PELs	PEL: 0.1 mg/m3	
		Britain EH40	TWA: 0.1 mg/m3	
NA	Molybdenum and compounds	France VL	TWA: 5 mg/m3 STEL: 10 mg/m3	
872-50-4	N-Methyl-2-pyrrolidone	Britain EH40	TWA: 103 mg/m3 (25 ppm) STEL: 309 mg/m3 (75 ppm)	Skin Absorption



8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): If handled with open container, provide adequate ventilation/exhaust. Do not breathe gas/fumes/vapors/spray.

8.2.2 Personal protection equipment:

Eye Protection: Wear safety glasses with side shields (or goggles) and a face shield.

Protective Gloves: Chemical resistant gloves recommended if there is prolonged and repeated contact with skin. Polyethylene, Neoprene or PVC gloves should be suitable.

Other Protective Clothing: No data available.

Respiratory Equipment (Specify Type):

If adequate ventilation is not available, wear appropriate air- filtering respirators. filters should be suitable for organic gases and vapors.

Work/Hygienic/Maintenance Practices: Do not smoke, eat or drink while using this product. Wash hands with soap and water before smoking, eating, drinking or using toilet facilities. Launder contaminated clothing before reuse.

No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Grayish. Paste.

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: 265.00 C Method Used: Cleveland Open Cup

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Density: 1.3 - 1.5

Solubility in Water: No data.

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: No data.

Decomposition Temperature: No data.

Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Section 10. Stability and Reactivity

10.1 Reactivity:	Oxidizing materials, Acids and alkalis.
10.2 Stability:	Unstable [] Stable [X]
10.3 Conditions To Avoid - Hazardous Reactions:	No data available.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
10.4 Conditions To Avoid - Instability:	Sources of ignition such as sparks, hot spots, welding, flames, and cigarettes.
10.5 Incompatibility - Materials To Avoid:	Strong Acids & Oxidizers.
10.6 Hazardous Decomposition or Byproducts:	Barium, Tellurium, Fluorine, Hydrogen Fluoride, Carbon Monoxide, Boron Oxides, Barium Oxides, Nitrogen Oxides and Phosphorous Oxide.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects:	<p>CAS# 64-17-5: Acute toxicity, LD50, Oral, Rat, 7060. MG/KG. Results: Lungs, Thorax, or Respiration:Other changes. ; Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 16,718, 1970</p> <p>Acute toxicity, TDLo, Intracerebral, Rat, 363.6 g/kg. Results: Behavioral: Alteration of operant conditioning. ; Psychopharmacology, Springer-Verlag, Service Center, 44 Hartz Way, New York, NY 07094, Vol/p/yr: 170,51, 2003</p> <p>Standard Draize Test, Skin, Species: Rabbit, 20.00 MG, 24 H; Prehled Prumyslove Toxikologie, Marhold, J., Organicke Latky, Prague Czechoslovakia, Vol/p/yr: -,189, 1986</p>
Irritation or Corrosion:	Skin and eye irritation, drowsiness, lack of coordination.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

Section 12. Ecological Information

12.1 Toxicity:	<p>CAS# 64-17-5: Not reported., Goldfish (Carassius auratus), 6.000 %, 4.10 H, Behavior, Water temperature: 21.00 C C; The Effects of Lithium on the Development of Alcohol Tolerance in Carassius auratus, Willner, A.H., and F.N. Johnson, 1980</p> <p>LC50, Harpacticoid Copepod (Nitocra spinipes), adult(s), 7750000. UG/L, 96 H, Mortality, Water temperature: 10.00 C C, pH: 7.80; The Acute Toxicity of 78 Chemicals and Pesticide Formulations Against Two Brackish Water Organisms, the Bleak (Alburnus alburnus) and the Harpacticoid Nitocra spinipes, Linden, E., B.E. Bengtsson, O. Svanberg, and G. Sundstrom, 1979</p> <p>LC50, Brine Shrimp (Artemia salina), nauplii, 10000000. UG/L, 24 H, Mortality, Water temperature: 24.00 C C; Brine Shrimp Bioassay and Seawater BOD of Petrochemicals, Price, K.S., G.T. Waggy, and R.A. Conway, 1974</p>
12.2 Persistence and Degradability:	No data available.
12.3 Bioaccumulative Potential:	No data available.
12.4 Mobility in Soil:	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other adverse effects:	No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Prevent further leakage or spillage if safe to do so. Prevent discharge into surface water, sewer or the ground. Dispose of contents/container to ... Avoid release to the environment.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Paint related material.
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: 1263 **Packing Group:** III



14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:
UN Number: 1263 **Packing Group:** III
Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Paint related material.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7732-18-5	Water	No	No	No
64-17-5	Ethanol	No	No	No
NA	Barium Compounds	No	No	Yes
NA	Boron and compounds	No	No	No
NA	Tellurium compounds	No	No	No
NA	Molybdenum and compounds	No	No	No
872-50-4	N-Methyl-2-pyrrolidone	No	No	Yes

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- | | |
|---|--|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Acute toxicity (any route of exposure) |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Skin Corrosion or Irritation |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Oxidizer (liquid, solid or gas) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Serious eye damage or eye irritation |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Respiratory or Skin Sensitization |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Reproductive toxicity |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specific target organ toxicity (single or repeated exposure) |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrosive to metal | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No In contact with water emits flammable gas | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC) |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC) | |

California Proposition 65



This product can expose you to chemicals including N-Methylpyrrolidone, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to



www.P65Warnings.ca.gov.

Section 16. Other Information

Revision Date: 03/21/2019

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The information contained herein is furnished without expressed warranty of any kind.

Data contained herein has been assembled by the manufacturer based on its own studies and is believed to be correct as of the data issued. However, there is no warranty implied as to the accuracy, completeness, or Adequacy of the information obtained.

The manufacturer shall not be liable, regardless of fault, to the vendee, the vendee's employees, or anyone, for any direct, special or consequential damages arising out of or in connection with the normal safe usage of the product. If there are any questions, please contact:

Tiodize Co, inc. at 714/898-4377.