


## Section 1: Identification

<b>Common Name/Trade Name</b>	ZINC OXIDE USP	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	N/A	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Acute aquatic toxicity (Category 1), Chronic aquatic toxicity (Category 1)	
<b>Signal Word</b>	Warning	
<b>Hazard Statement(s)</b>	H410 Very toxic to aquatic life with long lasting effects	
<b>Pictogram(s)</b>		
<b>Precautionary Statement(s)</b>	P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container to an approved waste disposal plant.	
<b>Hazards Not Otherwise Classified</b>	No data available	
<b>Ingredient(s) with Unknown Toxicity</b>	No data available	

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	N/A
<b>Common Name</b>	Zinc Oxide
<b>CAS Number</b>	1314-13-2
<b>Impurities and/or Stabilizing Additives</b>	No data available

## Section 4: First Aid Measures

<b>General Advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If Inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In Case of Skin Contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If Swallowed</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Most Important Symptoms and Effects</b>	The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special Hazards Arising From the Substance/Mixture</b>	Zinc/zinc oxides
<b>Special PPE and/or Precautions for Firefighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
<b>Methods and Materials Used for Containment</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
<b>Cleanup Procedures</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
<b>Conditions for Safe Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	Component: Zinc oxide CAS-No. 1314-13-2 Value TWA Control parameters: 2 mg/m3 Basis USA. ACGIH Threshold Limit Values (TLV) Remarks: metal fume fever. Value STEL Control parameters: 10 mg/m3 Basis USA. ACGIH Threshold Limit Values (TLV). metal fume fever. Value TWA Control parameters: 5 mg/m3 Value: USA. NIOSH Recommended Exposure Limits. Value TWA Control parameters 5 mg/m3 Basis USA. NIOSH Recommended Exposure Limits. Value ST Control parameters 10 mg/m3 Basis USA. NIOSH Recommended Exposure Limits. Value C Control parameters 15 mg/m3 Basis USA. NIOSH Recommended Exposure Limits. Value TWA Control parameters 5 mg/m3 Basis USA Occupational Exposure Limits (OSHA) - TABLE Z-1 Limits for Air Contaminants. Value TWA Control parameters 15 mg/m3 Basis USA Occupational Exposure Limits (OSHA) - TABLE Z-1 Limits for Air Contaminants Value TWA Control parameters 5 mg/m3 Basis USA Occupational Exposure Limits (OSHA) - TABLE Z-1 Limits for Air Contaminants Value TWA Control parameters 10 mg/m3 Basis USA. OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000. Value TWA Control parameters 5 mg/m3 Basis USA. OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000 Value TWA Control parameters 5 mg/m3 Basis USA. OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000. Value STEL Control parameters 10 mg/m3 Basis USA. OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000
<b>Appropriate Engineering Controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>PPE - Eye/Face Protection</b>	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>PPE - Skin Protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>PPE - Body Protection</b>	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<b>PPE - Respiratory Protection</b>	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 142) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Form: Powder Colour: White
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	No data available
<b>Relative Density</b>	5.610 g/cm <sup>3</sup>
<b>Melting Point/Freezing Point</b>	No data available
<b>Solubility</b>	No data available
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Partition Coefficient</b>	No data available
<b>Auto-Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	No data available
<b>Conditions to Avoid</b>	No data available
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Other decomposition products - No data available

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	LD50 Oral - mouse - 7,950 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 Inhalation - mouse - 2,500 mg/m3
<b>Acute Toxicity - Dermal</b>	No data available
<b>Acute Toxicity - Eye</b>	Eyes - rabbit - Mild eye irritation - 24 h
<b>Skin Corrosion/Irritation</b>	Skin-rabbit Results: Mild skin irritation -24 h
<b>Serious Eye Damage/Irritation</b>	Eyes - rabbit - Mild eye irritation - 24h
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	Hamster Embryo Unscheduled DNA synthesis Hamster Embryo Morphological transformation. Hamster Embryo Sister chromatid exchange. guinea pig Unscheduled DNA synthesis
<b>Carcinogenicity IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
<b>Carcinogenicity ACGIH</b>	No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.
<b>Carcinogenicity NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>Carcinogenicity OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity - Single Exposure</b>	No data available
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96.0 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.098 mg/l - 48 h
<b>Persistence and Degradability</b>	No data available
<b>Bio-accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other Adverse Effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Offer surplus and non-recyclable solutions to a licensed disposal company.
<b>Waste Treatment Methods Packaging</b>	Dispose of as unused product.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	Not dangerous goods

## Section 14: Transport Information

<b>UN Number</b>	
<b>UN Proper Shipping Name</b>	
<b>Transport Hazard Class(es)</b>	
<b>Packaging Group</b>	
<b>Environmental Hazards</b>	

## Section 15: Regulatory Information

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: The following components are subject to the reporting levels established by SARA Title III, Section 313: Zinc oxide CAS-No. 1314-13-2 Revision Date 2007-03-01. SARA 311/312 Hazards: No SARA Hazards. Massachusetts Right To Know Components: Zinc oxide CAS-No. 1314-13-2 Revision Date 2007-03-01. Pennsylvania Right To Know Components: Zinc oxide CAS-No. 1314-13-2 Revision Date 2007-03-01 New Jersey Right To Know Components: Zinc oxide CAS-No. 1314-13-2 Revision Date 2007-03-01. California Prop. 65 Components: This product does not contain any chemical know to State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: Other Information

<b>Additional Information</b>	
<b>Prepared By</b>	Lisa Russell
<b>Revision Date</b>	01/09/2019 12:17

### Disclaimer

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