

# Zinc Oxide, Micronized & Coated

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules and Regulation

Revision Date: 05-02-2015 Supersedes: 03-21-2014

# 1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Zinc Oxide, Mi	cronized & Coated	Distributor:	XI'AN AOGU BIOTECH CO.,LTD	
Synonyms:	<b>is:</b> Zinc oxide, calamine		Address:	Room 606,Block B3,Jinye Times,No.32, East Section of Jinye Road, Yanta District, Xi'an Shaanxi 710065 China	
INCI Name: CAS Number: Formula: Product Form:	Zinc oxide, trie 1314-13-2, 294 Not available Microfine powe		Phone / Fax: Web:	0086-29-89121514 0086-18091843361 www.aogubio.com	
Product Form: Microfine power Product Use: Cosmetic use			Emergency Te (Chemtrec)	Emergency Telephone Number: 0086-18091843361 (Chemtrec)	
2 HAZARDS IDI	ENTIFICATION				
GHS Signal Word:		WARNING			
GHS Hazard Pictograms:		<b>*</b>			
GHS Hazard Statements: GHS Precautionary Statements: Potential Health Hazards: Eyes: Inhalation:		fever. Some workers de	ance with local disp aring and mild temp led, except of a few velop a tolerance af	osal regulations	
Skin: Ingestion: NFPA Ratings (7	04):	May cause skin irritatiorMay cause vomiting, natHealth2Flammability1Reactivity0SpecificWHazardW	า		

<u>Component</u>	CAS No.	Weight %	Molecular Weight
Zinc Oxide	1314-13-2	<b>96% - 99%</b>	81.38 g/mol
Triethoxycaprylylsilane	2943-75-1	1% - 4%	276.49 g/mol

#### FIRST AID MEASURES 4

Eyes:	In case of eye contact, rinse with plenty of water and seek medical attention if necessary
Inhalation:	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.
Skin:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary
Ingestion:	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES



Suitable (and unsuitable) extinguishing media: Special protective equipment & precautions for firefighters: Specific hazards:	Product is not flammable. Use appropriate media for adjacent fire. Cool unopened containers with water. Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Emits toxic fumes under fire conditions. See also Stability and Reactivity section.	
6 ACCIDENTAL RELEASE MEASU	IRES	
Personal precautions:	See section 8 for recommendations on the use of personal protective equipment.	
Environmental precautions:	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements	
Methods and material for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations	

# 7 HANDLING & STORAGE

	See section 8 for recommendations on the use of personal protective equipment. Use with
Safe handling:	adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid
_	formation of dusts.
Safe storage:	Store in cool, dry well ventilated area. Keep away from incompatible materials.

# 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Zing Outle	Exposure Limits	Basis	Entity
Zinc Oxide	2.0 mg/m <sup>3</sup> -total dust	TWA	ACGIH
Zinc Oxide	10.0 mg/m <sup>3</sup> - total dust	STEL	ACGIH
Zinc Oxide	5.0 mg/m <sup>3</sup> - TWA respirable fraction	PEL	OSHA
Zinc Oxide	15.0 mg/m³ - TWA total dust	PEL	OSHA
Zinc Oxide	5.0 mg/m <sup>3</sup> - TWA fume	PEL	OSHA
Zinc Oxide	10.0 mg/m <sup>3</sup> - STEL fume	PEL	OSHA
Zinc Oxide	5.0 mg/m³ - total dust	REL	NIOSH
Zinc Oxide	15.0 mg/m <sup>3</sup> - 15min ceiling	REL	NIOSH
TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work. REL: Recommended Exposure Limit PEL: Permissible Exposure Limit		STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels CEIL: Ceiling	

### Personal Protection:

Eyes:	Wear chemical safety glasses or goggles.
Inhalation:	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin:	Wear nitrile or rubber gloves, apron or lab coat.
Other:	Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling

# 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Powdered solid	pH Value:	Not available
Odor:	Odorless	Vapor Density:	Not applicable
Color:	White	Evaporation Rate:	Not applicable
Medium Particle Size:	86 nm	Flash Point:	Not flammable
Molecular Weight:	81.38 g/mol	Specific Gravity:	5.606 g/cm3 (water = 1)
Specific Surface Area (BET):	30-70 m²/g	Solubility:	



# SDS (Safety Data Sheet)

Boiling Point:	1975°C (3587°F)	Insoluble in water (0.00016
Melting Point:	1975°C (3587°F)	g/ 100 ml cold water); soluble in acids and bases

# 10 STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to Avoid: Hazardous Decomposition Products:	Product is stable Product is stable Will not occur Not available None
Incompatible Materials:	Zinc oxide and chlorinated rubber react violently at 215°C. Contact with magnesium and linseed oil can cause violent reaction. Contact with strong acids may cause vigorous reaction. Contact with strong bases will form water and soluble zincates. Contact between zinc oxide and hydrogen fluoride, aluminum and hexachloroethane, zinc chloride or phosphoric acid, and water should be avoided.

# 11 TOXICOLOGICAL INFORMATION

Acute Toxicity (LD50):240 mg/kg (intraperitoneal, rat), >8.4g/kg (oral, rat)Carcinogenicity:Not classified as carcinogenic materialTeratogenicity:Zinc oxide at 2 to 38 mg/day had no effect on reproductionMutagenicity:Zinc components have not been active in genetics assaysEmbryotoxicity:Not availableSpecific Target Organ Toxicity:Not availableReproductive Toxicity:Not available	
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# 12 ECOLOGICAL INFORMATION

Ecotoxicity:	It is very toxic to aquatic organisms. Since it take a very long time for zinc oxide to break down, it may cause adverse long-term effects in the aquatic environment.
Persistence and Degradability:	Not available
Bioaccumulative Potential: Mobility in Soil: PBT and vPvB Assessment:	Not available Not available Not available

# 13 DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA): TDG (Transportation of Dangerous Goods, Canada): Not regulated Not regulated



IMDG (International Maritime Dangerous Goods): Number UN3077, hazard class 9 IATA (International Air Transport Association): Number UN3077, hazard class 9 ICAO (International Civil Aviation Organization): Not regulated

# 15 REGULATORY INFORMATION

TSCA Inventory Status:	All ingredients are listed on the TSCA inventory
DSCL (EEC):	EC # 215-222-5
SARA 311/312:	Listed (acute)
SARA 313:	Compounds: Zn, Pb
U.S. EPA:	Reg. No. 71645-3, PC Code: 088502
U.S. TRI:	Reproductive Toxin - Yes, Development Toxin - Yes

# 16 OTHER INFORMATION

Revision Date:	05-02-2015
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness & completeness of such information for his own particular use.