

Zinc Oxide MATERIAL SAFETY DATA SHEET

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SECTION 1: Chemical Name			
Chemical name:	Chinese Zinc oxide	Chemical Common Name:	Zinc white
Chemical name:	English zinc oxide	English name:	zinc white
Technical specification code:	1320	CAS NO:	1314-13-2
Production company name:	Zhuzhou Ante New Material Technology Co., Ltd.		
address:	No. 2 Longshan Road, Youzhou Industrial Park, Youxian, Zhuzhou, Hunan, China		
effective date	2020		
SECTION 2: Ingredient / Composition Information			
Composition	content	CAS NO.	
Zinc oxide(ZnO)	≥95.0%	1314-13-2	
SECTION 3: Overview of dangers			
Risk category:	Type 9-3077		
Invasion route:	Swallow, inhale		
Health hazard:	After inhaling zinc oxide soot for 4-8 hours, metal hot smoke may appear. There is metal sweetness in the mouth, thirst, itching, and chest tightness, cough, shortness of breath, weakness, sore muscles and joints, and may be accompanied by headache and nausea , Vomiting, abdominal pain, etc., followed by chills, fever, and increased white blood cell counts. Some people have reported that people exposed to zinc oxide are weak and lose weight.		
Environmental hazard:			
Explosion hazard:	This product is non-combustible.		
SECTION 4: First aid measures			
skin contact:	Remove contaminated clothing and rinse with running water.		
eye contact:	Lift your eyelids and rinse with running water or saline.		

Inhalation:	Quickly leave the scene to fresh air. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion:	Drink plenty of warm water and induce vomiting.
SECTION 5: Fire Fighting Measures	
Dangerous characteristics:	There are no special fuel explosion effects. It can react violently with magnesium and cause an explosion.
Hazardous combustion products:	Zinc oxide
Fire fighting methods:	Firefighters must wear full-body fire and gas protective clothing to extinguish the fire in the upwind direction. Whenever possible, move the container from the fire to an open space.
SECTION 6: Spill Response	
Emergency treatment:	Isolate leaking contaminated areas and restrict access. It is recommended that emergency handlers wear dust masks (full face masks) and protective clothing. Avoid dust, carefully sweep them up, and place them in a bag and transfer them to a safe place. If a large amount of leakage, use plastic cloth, canvas Covered: Collected for recycling or transported to a waste disposal site for disposal.
SECTION 7: Handling and Storage	
Notes on operation:	Closed operation, local exhaust. Operators must undergo special training and strictly abide by the operating procedures. It is recommended that operators wear self-priming filter dust masks, chemical safety protective glasses, anti-poison infiltration overalls, and latex gloves. Avoid dust generation Avoid contact with oxidants. Handle lightly during handling to prevent damage to the package. Equipped with leak emergency treatment equipment. Empty containers may contain harmful substances.
Precautions for storage:	Stored in a cool, ventilated warehouse. Keep away from fire and heat sources. It should be stored separately from oxidants, and should not be mixed. The storage area should be equipped with suitable materials to contain spills.
SECTION 8: Exposure Controls / Personal Protection	
China MAC (mg / m ³)	5
TVLVTN:	ACGIH 5mg / m ³ (smoke) 10mg / m ³ (dust)
TLVWN:	ACGIH 10mg / m ³ (smoke)
Monitoring method:	Flame Atomic Absorption Spectrometry; dithizone spectrophotometry; catalytic polarography
engineering control:	Closed operation, local exhaust.
Respiratory protection:	When the dust concentration in the air exceeds the standard, it is recommended to wear a self-priming filter-type dust respirator. When emergency rescue or evacuation, you should wear an air respirator.
Eye protection:	Wear chemical safety protective glasses.
Body protection:	Wear protective clothing that penetrates the poison.
Hand protection:	Wear latex gloves.
Other protection:	After work, bathe and change clothes. Pay attention to personal hygiene.
SECTION 9: Physical and Chemical Properties	

Appearance and properties:	White hexagonal crystal or powder.		
Melting point (°C):	1975	Relative density (water = 1):	5.61
Boiling point (°C):	2360	Relative vapor density (air = 1):	
Molecular formula:	ZnO	Molecular weight:	81.38
Main ingredients:	Content: ZnO \geq 95.0%; Iron lead salt \leq 0.005%; arsenic salt \leq 0.0002%; burning vector \leq 1.0008%; cadmium salt \leq 0.004%; burning vector 1-4%.		
Solubility:	Insoluble in water, insoluble in ethanol, soluble in acid, aqueous sodium hydroxide solution, potassium cyanide, etc.		
The main purpose:	It is used as a pigment and rubber filler for paint, and is used in medicine to make ointment, zinc paste, rubber paste, etc.		
Other physical and chemical properties:			
SECTION 10: stability and reactivity			
stability:	Stored and used under normal ambient temperature, this product is stable.		
Incompatibility:	Strong oxidants.		
Conditions to avoid:	Electrostatic discharge, heat, humidity, etc.		
Polymerization hazard:			
Decomposition products:			
Section 11: Disposal			
Waste nature:			
Disposal methods:	Dispose by safe burial.		
Disposal considerations:			
SECTION 12: Transport Information			
Dangerous goods category:	Type 9		
un number:	UN3077		
Packaging mark:			
Packing category:	Packing Group III		
method of packing:	25kg woven bag for class III dangerous goods, 25kg kraft bag for class III dangerous goods, 25kg paper-plastic composite bag, 1000kg container bag, etc.		
Transport considerations:	The package must be complete when loading, and the loading should be secure. During the transportation, ensure that the container part leaks, does not collapse, does not fall, and is not damaged. It is strictly prohibited to mix and transport with oxidants. During transportation, it shall be protected from exposure to sunlight, rain and high temperature.		
SECTION 13: Regulatory Information			
Regulatory Information:	This version is version 1.0, compiled according to the GB/T 16483-2008、GB/T 17519-2013、GB 30000 series classification standards		

SECTION 14: Additional Information	
Filing unit:	Zhuzhou Ante New Material Technology Co., Ltd.
other information:	