ScholAR™ Chemistry

MATERIAL SAFETY DATA SHEET

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MSDS No. 9440206 9440306
Effective Date: October 28, 2002

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE 416-984-3000

Product	Zinc Oxide
Chemical Synonyms	Chinese White; Zinc White
Formula	ZnO
CAS No.	1314-13-2

NFPA: 0 / 1 / 0

Health	2
Flammability	0
Reactivity	0

HAZARD RATING WHMIS

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Zinc oxide	>99.9%	TWA: 10 mg/m^3 as dust
WARNING!		

SECTION III PHYSICAL DATA

Melting Point (°C)	Sublimes @ 1975°C	Specific Gravity (H_2O = 1)	5.1
Boiling Point (°C)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Insoluble.		
Appearance & Odor	White crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

			Lower	Upper
Flash point	Not flammable.	Flammable Limits in Air % by Volume N/A		

Firefighting Procedures

Use dry chemical, CO_2, alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.

Flammability and Explosion Hazards

Fire may produce irritating, corrosive and/or toxic fumes.

TDG **Not a TDG controlled material.**

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SECTION V REACTIVITY DATA ZZ0100

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Chlorinated rubber above 216°C, active metals, e.g. magnesium.
	No		
Hazardous Decomposition Products	Zinc oxide fumes.		
Reactive under what conditions	Sublimes when heated.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Inhalation. Ingestion.
TLV	TWA: 5 mg/m^3; STEL: 10 mg/m^3 as fume TWA: 10 mg/m^3 as dust. (ACGIH 2001)
Toxicity for animals	Not available.
Chronic effects on humans	There are no known effects from chronic exposure to this product. Target organs: None known.
Acute effects on humans	Harmful if inhaled as dust or fume. Contact may cause irritation to the eyes and mucous membranes.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container in a cool, well ventilated place. Keep away from heat. Keep away from incompatible materials.
Precautions	Avoid contact with skin and eyes. Do not breathe dust. Use with adequate ventilation. Do not ingest. If ingested, seek immediate medical attention.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wash spill area with soap and water.
Protective Clothing	Gloves, safety glasses, lab coat, dust respirator.

SECTION VIII FIRST AID MEASURES

Specific first aid measures

Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.

SECTION IX PREPARATION OF THE MSDS

Rev. No.	2	Date	October 28, 2002	Approved	Michael Raszeja