

te: 06/15/2011

Page: 1

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

ZINC OXIDE 74514

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Nexeo Solutions PO Box 2458	Regulatory Information Number Telephone	1-800-325-3751 1-800-531-7106
Columbus, OH 43216	Emergency telephone number	1-855-639-3648
Product name	ZINC OXIDE	
Product code	74514	
Product Use Description	No data	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: solid

MAY BE HARMFUL IF INHALED.

Potential Health Effects

Exposure routes

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

May cause skin irritation. Symptoms may include redness, burning, and swelling of skin.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Page 1 / 12

Solutions SAFETY DATA SHEET

Page: 2

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

ZINC OXIDE 74514

This material is a dust or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.). Exposure to freshly formed fumes from heated metal or to fine metal dust may cause "metal fume fever". This illness comes on a few hours after exposure. It is characterized by chills, fever, and other flu-like symptoms including nausea, coughing, and congestion. This illness is temporary and tends to be more severe on the first day of the work week.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, metallic taste, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough

Target Organs

No data

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration	
ZINC COMPOUND	254504001-6050	<=100%	



Page: 3

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

ZINC OXIDE 74514

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available. **Treatment**: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray

Hazardous combustion products metal oxides

Precautions for fire-fighting

Page 3 / 12

NEXED Saturdays SAFETY DATA SHEET

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

ZINC OXIDE 74514

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Avoid breathing dust.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Pick up and arrange disposal without creating dust.

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Avoid dust formation.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

ZINC COMPOUND		254504001-6050	
ACGIH	time weighted average	2 mg/m3	Respirable fraction.
ACGIH	Short term exposure limit	10 mg/m3	Respirable fraction.

Page 4 / 12

Page: 4

NEXED³ SALUE ONS SAFETY DATA SHEET

ZINC OXIDE 74514 Revision Date: 06/15/2011

Print Date: 00/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

NIOSH	Recommended exposure	5 mg/m3	Dust	
	limit (REL):			
NIOSH	Recommended exposure	5 mg/m3	Fume.	
	limit (REL):			
NIOSH	Ceiling Limit Value and	15 mg/m3	Dust	
	Time Period (if specified):			
NIOSH	Short term exposure limit	10 mg/m3	Fume.	
OSHA Z1	Permissible exposure limit	15 mg/m3	Total dust.	
OSHA Z1	Permissible exposure limit	5 mg/m3	Fume.	
OSHA Z1	Permissible exposure limit	5 mg/m3	Respirable fraction.	
1.5				

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Avoid breathing dust.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects. Provide appropriate exhaust ventilation at places where dust is formed.

Eye protection

Wear safety glasses or chemical splash goggles when dust exposure is possible.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by airpurifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an airpurifying respirator may not provide adequate protection.

SAFETY DATA SHEET

74514

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Form Colour Odour Boiling point/boiling range Melting point/range

Sublimation point pH Flash point

Ignition temperature Evaporation rate Lower explosion limit/Upper explosion limit Particle size Vapour pressure **Relative vapour density** Density **Bulk density** Water solubility Solubility(ies) Partition coefficient: n-octanol/water log Pow Autoignition temperature Viscosity, dynamic Viscosity, kinematic Solids in Solution **Decomposition temperature Burning number Dust explosion constant** Minimum ignition energy

solid no data available no data available odourless no data available 3.587 °F / 1.975 °C

no data available not applicable

not applicable no data available no data available no data available no data available 12.000 mmHg @ 2,192 °F / 1,200 °C no data available 5.65 g/cm3 No data insoluble no data available no data available

10. STABILITY AND REACTIVITY

Stability

Page 6 / 12

ZINC OXIDE

Page: 6

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

NOXO Solutions SAFETY DATA SHEET

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

ZINC OXIDE 74514

Stable.

Conditions to avoid Keep away from heat, flame, sparks and other ignition sources.

Incompatible products chlorinated rubber, lithium, magnesium

Hazardous decomposition products metal oxides

Hazardous reactions Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity ZINC COMPOUND

: LD 50 Mouse: 7,950 mg/kg

Acute inhalation toxicity ZINC COMPOUND

: LC 50 Mouse: (>) 5.7 mg/l; 4 h

Acute dermal toxicity

ZINC COMPOUND

: no data available

12. ECOLOGICAL INFORMATION

Biodegradability ZINC COMPOUND

: no data available

Bioaccumulation

Page 7 / 12

Page: 7

SAFETY DATA SHEET

ZINC OXIDE 74514

ZINC COMPOUND

Ecotoxicity effects

Toxicity to fish ZINC COMPOUND Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

: no data available

: 96 h LC 50 Fathead minnow (Pimephales promelas): 2,246.00 mg/l Method: Static; Mortality

Toxicity to daphnia and other aquatic invertebrates.

ZINC COMPOUND

: 48 h LC 50 Water flea (Daphnia magna): .09 mg/l Method: Static Mortality

Toxicity to algae ZINC COMPOUND

: no data available

Toxicity to bacteria ZINC COMPOUND

: no data available

Biochemical Oxygen Demand (BOD)

ZINC COMPOUND

Chemical Oxygen Demand (COD) ZINC COMPOUND

Additional ecological information ZINC COMPOUND

: no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Page 8 / 12

Page: 8

: no data available

: no data available

NEXED^{*} Solutions SAFETY DATA SHEET

Page: 9

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

ZINC OXIDE 74514

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

REGULATION

ID NUM	BER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
J.S. D	OT - RC	DAD				
UN	3077	SUSTANCIA SOLIDA POTENCIALMENTE PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (ZINC OXIDE)	9		Ш	
U.S. D	OT - RA	JIL				
UN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	9		III	
U.S. D	OT - IN	LAND WATERWAYS				
TTAT	2055	EN IL HED COND. (EN IEE) I T T T	0			*

UN	3077	ENVIRONMENTALLY	9	III
		HAZARDOUS SUBSTANCE,		
		SOLID, N.O.S. (ZINC OXIDE)		

TRANSPORT CANADA - ROAD

UN	3077	ENVIRONMENTALLY	9	III	
		HAZARDOUS SUBSTANCE,			
		SOLID, N.O.S. (ZINC OXIDE)			

TRANSPORT CANADA - RAIL

UN	3077	ENVIRONMENTALLY	9	III	
		HAZARDOUS SUBSTANCE,			
		SOLID, N.O.S. (ZINC OXIDE)			

TRANSPORT CANADA - INLAND WATERWAYS

Page 9 / 12



Revision Date: 06/15/2011

ZINC OXIDE 74514 Print Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

3077	ENVIRONMENTALLY	9	III		
	HAZARDOUS SUBSTANCE,				
	SOLID, N.O.S. (ZINC OXIDE)				
RNATIO	NAL MARITIME DANGEROUS	S GOODS			
3077	ENVIRONMENTALLY	9	III		
	HAZARDOUS SUBSTANCE,				
	SOLID, N.O.S. (ZINC OXIDE)				
	NAL AIR TRANSPORT ASSOC		ш		
RNATIO 3077	DNAL AIR TRANSPORT ASSOC Environmentally hazardous substances, solid, n.o.s. (ZINC OXIDE)	PIATION - CARGO 9	Ш		
	Environmentally hazardous substances, solid, n.o.s. (ZINC		Ш		
3077	Environmentally hazardous substances, solid, n.o.s. (ZINC	9			
3077	Environmentally hazardous substances, solid, n.o.s. (ZINC OXIDE)	9			
	RNATIO	HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE) RNATIONAL MARITIME DANGEROUS 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE) RNATIONAL MARITIME DANGEROUS GOODS 3077 ENVIRONMENTALLY 9 HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE) RNATIONAL MARITIME DANGEROUS GOODS 3077 ENVIRONMENTALLY 9 III HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE) RNATIONAL MARITIME DANGEROUS GOODS 3077 ENVIRONMENTALLY 9 III HAZARDOUS SUBSTANCE,

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3077	Environmentally hazardous substances, solid, n.o.s. (ZINC	9	+	54 I	a I	R.	Ш	
*ORM	= ORM-	OXIDE) D, CBL = COMBUSTIBLE LIQUID							

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

OXIDE)

WARNING! This product contains a chemical known to the State of California to cause cancer.	CADMIUM LEAD
WARNING! This product contains a chemical known to the State	CADMIUM
of California to cause birth defects or other reproductive harm.	LEAD

Page 10 / 12

Solutions SAFETY DATA SHEET

ZINC OXIDE 74514

SARA Hazard Classification	
No SARA Hazards	
SARA 313 Component(s)	
ZINC OXIDE	100.00 %
New Jersey RTK Label Information ZINC COMPOUND	254504001-6050
Pennsylvania RTK Label Information	
ZINC COMPOUND	254504001-6050
Notification status	
US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	2 0.,
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

	HMIS	NFPA
Health	1	1 .
Flammability	0	0
Physical hazards	0	
Instability		0
Specific Hazard		

Page: 11

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8



Page: 12

Revision Date: 06/15/2011 Print Date: 4/3/2013 MSDS Number: R0004161 Version: 1.8

ZINC OXIDE 74514

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO's Environmental Health and Safety Department (1-800-325-3751).

Page 12 / 12