

NICKEL (II) OXIDE

Section I

Kurt J. Lesker Company 1925 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/233-4275		Emergency Phone Numbers Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms Nickelous Oxide, Nickel Monoxide, Bunsenite		Date of Last Revision 12/14/94	
Formula NiO	Chemical Family	Chemical Abstract No. 1313-99-1	
TSCA		Calc. Molecular Wt. 74.71	

Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL

Section III Physical Data

Boiling Point (0°C): NA	Density (gmcc): NA
Vapor Pressure: NA	% Volatile by Volume: NA
Reaction with Water: ND	Evaporation Rate (H ₂ O -1):
Solubility in Water: Insoluble	Melting Point (°C): NA
Appearance and Odor: Black or greenish-black powder, odorless	Other Comments: Soluble in acids, ammonium hydroxide

Section IV Fire & Explosion Hazard Data

Flash Point (method) Noncombustible	Autoignition Temp. NA	Flammability BA	LEI NA	UEI NA
Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions.				
Special Fire Fighting Procedures: Wear SCBA				
Unusual Fire and Explosion Hazards: NA				

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: Sweep or scoop up and remove. Evacuate area. Wear SCBA, rubber boots and heavy rubber gloves. Wear disposable coveralls and discard them after use. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
Waste Disposal Method (Consult federal, state or local authorities for proper disposal procedures.): Consult federal, state and local authorities for proper disposal procedures: This product contains

chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-know Act of 1986 and 40CFR372.

Section VI Health Hazard Data

Toxicity Data otr-ham:kdy 100mg/L ims-rat TD: 180/mg/Kg itr-rat LD ₅₀ : 20 mg/Kg scu-mus LD ₅₀ : 50 mg/Kg ivn-dog LD ₅₀ : 9mg/Kg ivn-cat LD ₅₀ : 12700 ug/Kg		HMIS Hazard Rating Health: Flammability: Reactivity: Personal Protection:
Route(s) of Entry Inhalation: Skin: Ingestion:		
Effects of Overexposure (acute and chronic) Inhalation: Material is irritating to the mucous membranes and upper respiratory tract. Dermal/Eye Contact: ND Other (specify): Poison by intratracheal, intravenous and subcutaneous routes. An experimental tumorigen. Mutagenic data. Nickel and may of its compounds are poisons and carcinogens. Some are human carcinogens by inhalation. All airborne nickel contaminating dusts are regarded as carcinogen by inhalation. Pulmonary damage develops in rodents chronically exposed to aerosols NiO. Divalent nickel salts cause hyperglycemia, immune system effects, kidney damage, liver damage, and heart effects in experimental animals by parenteral administration. The most common effect resulting from exposure to nickel compounds is the development of "nickel itch". Suspect Carcinogen.		
Medical Conditions Generally Aggravated by Exposure:		
Carcinogenicity: NTP: IARC Monographs: OSHA Regulations:		
Emergency and First Aid Procedures Ingestion: Get medical attention. Wash out mouth with water. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. get medical attention. If breathing is difficult, give oxygen. Skin Contact: Flush with soap and water. If irritation persists, get medical attention. Eye Contact: Flush with plenty of water for at least 15 minutes. Get medical attention.		

Section VII Reactivity Data

Stable: X Unstable:	Conditions Contributing to Instability: NA
Incompatibility (materials to avoid): Strong acids. Can react violently with fluorine, hydrogen peroxide, hydrogen sulfide, iodide, barium + air.	
Hazardous Decomposition Products - Thermal and Other (list): NA	
Hazardous Polymerization May Occur: Will Not Occur:	Conditions to Avoid: NA

Section VIII Special Protective Information

Respiratory Protection (specify type). Use Only Niosh Approved Equip. Filter-dust, fume, mist	
Ventilation (always maintain exposure below permissible limits) Local Exhaust: Always maintain exposure below permissible exposure limits. Use only in a chemical fume hood. Mechanical (general): Special: _____ Other: _____	
Protective Gloves: Natural rubber	Eye Protection: Goggles
Other Protective Equipment/Work Practices: Sufficient to prevent skin contact.	

Section IX Special Precautions

Precautions to be Taken in Handling and Storing: Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Do not breathe dust, vapor, mist, gas. Store in tightly closed containers. Store in a cool dry place.
Transportation Requirements DOT Class: Not regulated. UN Number: IMCO Class: Other:

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ND = NO DATA FOUND

NA = NOT APPLICABLE