



SOVEREIGN CHEMICAL COMPANY

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Material Safety Data Sheet

Oxo 1000

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

SOVEREIGN CHEMICAL COMPANY 1225 West Market St. Akron, Ohio 44313 Phone: 330-869-0500 Fax: 330-869-0518	Emergency Contact : Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
Trade Name(s): Oxo 1000 Flake, Oxo 1000 Powder	MSDS Number: 1657
Chemical Name: Polymeric phenol	Synonyms: None
Prepared By: Sovereign Chemical Company	Date of Issue: May 12, 2009 (supersedes: October 18, 2005) Revision Number: 3 Change(s): 3 year General review and update

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>	<u>STEL</u>
Proprietary polymeric phenol	Proprietary	> 99.9	10mg/m ³ (Total dust) 3 mg/m ³ (respirable dust)	15 mg/m ³ (total dust) 5 mg/m ³ (Respirable dust)	Not Est.

If this product is heated to temperatures sufficient to produce smoke or fumes, the residual phenol and xylene may be liberated. See section 8 for exposure limits.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Beige / pale yellow flakes or white to cream powder. Use appropriate personal protective equipment. The product itself is not combustible; however, the product as with any powder may form explosive dust/air mixtures if high concentrations of the product dust is suspended in air. During fire situations, irritating and toxic gases may be generated. Keep from entering storm or sanitary sewers, ground water, or soil. Because of the free phenol component, spills or releases may be reportable to local, state, and/or federal authorities.

HMIS Rating: Health -1, Flammability - 1, Reactivity - 0, Personal Protection Equipment - B -safety glasses, protective gloves

Potential Health Effects:

Eye: Eye contact with dust may cause corneal scratching or moderate irritation to eyes. Seek medical attention if molten product contacts eye

Skin Contact: No skin damage is expected if contact is infrequent. Prolonged exposure may cause skin sensitization on individual with pre-existing skin problems. Burns to skin can be caused by the product in the molten state.

Ingestion: Is not expected to be an important route of entry. Ingestion of small amounts is not likely to cause acute toxicity or internal damage.

Inhalation: Short-term inhalation of concentrated fumes from in the molten state may cause dizziness, nausea, and respiratory tract congestion. The product is not likely to cause acute toxicity from single exposure to dust or fumes.

Chronic & Carcinogenicity: Prolonged exposure may cause dermatitis. Prolonged exposure may lead to asthma. The product is not known to be carcinogenic.

4. FIRST AID MEASURES

Skin: Wash thoroughly with mild soap and water. Seek medical attention. Remove any contaminated clothing and launder thoroughly before reuse. If molten product contact skin, cool under a running stream of water. Get medical attention to remove any molten product than has cooled on the skin. **Note to Physician:** Mineral oil may be used to loosen molten material that has been cooled on the skin.

Eye: Flush with tepid water for at least 20 minutes holding the eyelids wide open. Seek medical attention if irritation develops.

Ingestion: Not expected to be an important route of entry into the body. Product is not toxic in small amounts. If large amounts of the product are ingested, give 2 glasses of water. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation: Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: > 200°F COC **LEL:** ND **UEL:** ND **Auto Ignition Temperature:** ND

Use water, foam, carbon dioxide, or dry chemical to extinguish fires. Product in or near fires should be cooled with a water spray or fog. A self contained breathing apparatus (SCBA) operating in the positive pressure mode and full fire fighting protective clothing should be worn for combating fires. When burned the product will produce acrid dense smoke and emit carbon dioxide, carbon monoxide, oxides of sulfur, and other toxic fumes. Above its flash point the product can support combustion in the presence of air.

6. ACCIDENTAL RELEASE MEASURES

Pick up with suitable implements and return to original container if reusable. If product is not usable, place in an approved container for disposal. Individuals involved in the cleanup should wear appropriate personal protective equipment. See Section 8. Unnecessary personnel should be kept clear of the area. Keep from entering storm or sanitary sewers, ground water, or soil. Dispose of following all local, state and federal laws. Other information as required.

7. HANDLING AND STORAGE

Storage Conditions: Do not store near or with strong oxidizing agents or at high temperatures. Store in closed containers in a dry environment.

Handling: Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts. Product is classified as a dust explosion hazard class II. Wet mopping or vacuuming with a unit that contains a HEPA filter is recommended to clean up any dusts generated during processing or handling. Individuals handling this product should wear personal protective equipment specified in Section 8. Plant environment should include controls and equipment specified in Section 8.

8. EXPOSURE CONTROL - PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation should be provided. Design details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A Manual of Recommended Practices" published by the ACGIH Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48910. The need for

local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer.

Respiratory Protection: Wear a NIOSH approved dust respirator or dust mask if dust is generated.

Eye Protection: Chemical protective goggles are recommended where there is a possibility of eye contact with the product. Safety glasses with side shields are recommended for all other operations.

Protection Gloves: Neoprene or nitrile gloves should be worn to prevent irritation and possible absorption. Cloth gloves are not recommended.

Other Protection Items: Neoprene or nitrile rubber coated apron or other body covering may be required if there is a possibility of regular work clothing becoming contaminated with the product. All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned before reuse.

General: Residual phenol and/or Xylene may be liberated at high temperatures.

Exposure Limits for Phenol:

ACGIH TLV: 5 ppm (19mg/m³)

OSHA PEL TWA: 5ppm (19mg/m³)

Exposure Limits for Xylene:

ACGIH TLV: 435 mg/m³

STEL TWA: 655mg/m³

OSHA PEL TWA: 435 mg/m³

OSHA STEL: 655mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Beige / pale yellow flakes or white / cream powder	Melt Point: 112 ± 12°C (Ring & Ball Softening Point)
Vapor Density (Air = 1): Not applicable	Octanol/Water Partition Coefficient: Not determined
Vapor Pressure: Not applicable	Evaporation Rate BuOAC = 1: Not applicable
Odor: Slight phenolic	Specific Gravity: 1.05 g/cc
% Volatile by Volume: Not applicable	Boiling Point: > 300°F
% Solubility (H₂O) : < 5%	pH: Not applicable
Other: None	

10. STABILITY AND REACTIVITY

Stability /Polymerization: Stable under normal conditions. Hazardous polymerization will not occur.

Incompatibility (conditions to avoid): Avoid contact with strong oxidizing agents. Avoid ignition sources where dust is produced.

Hazardous Decomposition Products: May produce acrid dense smoke, oxides of carbon, water and trace amounts of sulfur oxides.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

No details available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: This product does not exhibit immediate danger to aquatic environment.

Environmental Fate: No details available

13. DISPOSAL CONSIDERATIONS

Product should be disposed of in an EPA approved incinerator in accordance with all local, state, and/or federal regulations. No waste numbers are applicable to this product. Waste may be tested in accordance with 40CFR 261 to determine the hazard associated.

14. TRANSPORTATION INFORMATION

Regulation

D.O.T. Shipping Name	Not regulated
D.O.T. Hazard Class	Not regulated
U.N. /N.A. Number	Not regulated

15. REGULATORY INFORMATION

OSHA Exposure Standards: See Section 2

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste by listing. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C. All local, state and federal laws should be observed when disposing of material.

CERCLA (40 CFR 302.4) Reportable Quantify: Not regulated

SARA TITLE III

SARA Section 302: none
SARA Section 311/312: None
SARA Section 313: None

The product does not contain any chemicals on the California List of Known Carcinogens and Reproductive toxins.

TSCA Status: This product is listed on the Toxic Substances Control Act Inventory

Canadian DSL: All ingredients listed.

16. OTHER INFORMATION

NE = Not Established
NA = Not Applicable
ND = Not Determined

Information contained in this MSDS sheet have been gathered from the following documents:

Chemical REG-A-DEX, J.J.Keller,
WHMIS Compliance Manual, Carswell,
Transportation of Dangerous Good, J.J.Keller,
Code of Federal Regulations, Transportation, 49 CFR Parts 100 to 185, October 2003
NIOSH Pocket Guide to Chemical Hazards,
ACGIH Threshold Limit Values,
HMIS Implementation Manual, 2nd Edition
Toxicity and Safe Handling of Rubber Chemicals, BRMA, 3rd Edition
ChemCheck Handbook, Specialty Technical Publishers,
IARC WEB site
NTP WEB site

IMPORTANT SAFETY NOTICE: The information in the Material Safety Data Sheet relates only to the specific material(s) described herein and does not relate to use in combination with any other material or substance or in any process. We believe that the information contained herein is current as of the date of issue of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of this product are not within the control of Sovereign Chemical Company, it is the user's obligation to determine the conditions of safe use of the product.

Users of this product should study this Material Safety Data Sheet and become aware of the product hazards and safety information before using the product. Users should also notify their employees, agents, and contractors of the information on this Material Safety Data Sheet and any product hazards and safety information in order to provide safe use of this product.