

**SOVEREIGN CHEMICAL COMPANY**

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Material Safety Data Sheet

Oxoflex BL® – 75 Powder

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer: Sovereign Chemical Company 1225 West Market Street 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): Oxoflex® BL – 75 Powder	MSDS Number: 1800
Chemical Name: Diphenylamine-Acetone Condensation Product	Synonyms: None
Prepared By: Sovereign Chemical Company	Date of Issue: June 24, 2010 Revision Number: 2 (Supercedes: June 29, 2006) Change(s): Periodic Review

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>	<u>STEL</u>
Organosilicon binder	Proprietary	25%	NE	NE	NE
DPA	122-39-4	75%	10 mg/m ³	10 mg/m ³	NE

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Dark brown powder, aromatic amine-type odor. Use appropriate personal protective equipment. 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® III Rating: Health –3, Flammability – 1, Physical Hazard – 0, Personal Protection Equipment - E - safety glasses, protective gloves

Potential Health Effects:

Eye: May cause irritation and reddening

Skin Contact: May cause irritation. Risk of sensitization by skin contact.

Ingestion: Is not expected to be an important route of entry. Ingestion of small amounts may cause digestive system upset. May have a laxative effect.

Inhalation: May be irritating to the mucous membranes of the respiratory tract.

4. FIRST AID MEASURES

Skin: Wash thoroughly with mild soap and water. If skin irritation persists, seek medical attention. Remove any contaminated clothing and launder thoroughly before reuse.

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. DO not induce vomiting. 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: 230°F (110°C) **LEL:** ND **UEL:** ND **Auto Ignition Temperature:** ND

Use water spray or dry chemical to extinguish fires. Product in or near fires should be cooled with a water spray. A self contained breathing apparatus (SCBA) operating in the positive pressure mode and full fire fighting protective clothing should be worn for combating fires. Protect against inhalation of combustion products. May form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

Evacuate personnel to safe area. Wear suitable protective equipment as specified in Section 8. Provide sufficient ventilation to minimize exposure. Do not discharge into drains and the environment. Sweep and shovel up into clean dry covered containers. Minimize dust. Do not contaminate unspilled material. Flush area with water and collect cleaning water for proper disposal.

7. HANDLING AND STORAGE

Storage Conditions: Store in closed containers in a dry environment away from strong oxidizing agents and concentrated mineral acids. Avoid high temperatures.

Handling: Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts. Take measures against electrostatic charges. Electrically bond and ground all containers and equipment before transfer or use of material. Avoid skin and eye contact and dispersion of dust in air to reduce potential for dust ignition/explosion. Wash thoroughly after 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 and available at their web site, <http://www.acgih.org>. 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 dust mask.

Eye Protection: Use safety glasses.

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. Safety showers close to the work station are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Dark brown powder.	Melt Point: ND
Vapor Density (Air = 1): NA	Octanol/Water Partition Coefficient: ND
Vapor Pressure: NA	Evaporation Rate BuOAC = 1: NA
Odor: aromatic amine-type odor	Specific Gravity: 1.33
% Volatile by Volume: NA	Boiling Point: NA
% Solubility (H₂O) : Insoluble in water, soluble in most hydrocarbons	pH: NA

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: Carbon monoxide, carbon dioxide and nitrogen oxides.

Special Sensitivity: None

11. TOXICOLOGICAL INFORMATION

for DPA:

Toxicology Information: Oral toxicity: LD₅₀ (rats) – 2.3 g/kg
Irritation: eye (rabbits) – negative
skin (rabbits) – mild
Mutagenicity: Ames Salmonella – negative
CHO HGPRT – negative
DNA damage: Rat hepatocyte UDS – negative
Mouse micronucleus – negative

Chronic: The feeding to rats and dogs of up to 1% for 2 years demonstrated liver, kidney and blood cell damage in the high dose animals. The no effect level was observed at 100 ppm.

Subchronic: The feeding to rats of 1% for 5 months produced renal cystic disease. A dose-dependent increase in heinzbody formation was evident during a 12-week study of 5, 10, 40, 100, 250, and 1000 ppm. The no effect level was observed at 10 ppm.

12. ECOLOGICAL INFORMATION

This data is for DPA

Environmental Toxicity: Golden Orfe 48 hour LC₅₀ - > 20 mg/l
Killifish 48 hour LC₅₀: 5.1 mg/l
Daphnia Magna 24 hour EC₅₀: 2.3 mg/l
Algae 72 hour EC₅₀: 0.18 mg/l
Ready Biodegradation (28day): 0% Non-biodegradable
Bioaccumulation (Carp): BCF=51-253 DPA is very toxic to aquatic species.

13. DISPOSAL CONSIDERATIONS

Product: Disposal in a chemical land-fill is not recommended. Incineration in an EPA approved incinerator with flue gas-scrubbing in accordance with all local, state, and/or federal regulations is recommended. Do not discharge into drains or the environment.

Packaging: Contaminated packaging should be disposed of as a chemical waste.

The product contains diphenylamine as an impurity. It may be necessary to contain and dispose of Diphenylamine containing waste as Hazardous Waste. Contact your state Department of Environmental Protection or your regional office of the Federal EPA for specific recommendations.

14. TRANSPORTATION INFORMATION

US DOT, Canadian TDG, ICAO/IATA, IMDG: Not regulated.

Regulated in Europe as Aquatic Pollutant per ADR for Ground Transport.

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (diphenylamine-acetone), 9, UN 3077, PG III.

Reportable Quantity (RQ): Inner packages are 6 kg or less and the overall package is 30 kg or less.

15. REGULATORY INFORMATION

CERCLA/RCRA: No planning or reportable quantities.

TSCA: All Ingredients are listed on the TSCA inventory.

SARA Title III, Section 313, OSHA 1910.119, NTP, IARC, Subpart Z, NFPA, WHMIS, California Proposition 65: Not listed.

Canadian DSL: All ingredients listed.

16. OTHER INFORMATION

NE = Not Established

NA = Not Applicable

ND = Not Determined

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.