

**SOVEREIGN CHEMICAL COMPANY**

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Material Safety Data Sheet

Dox 1 Pastilles

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer: DJCHEM Chemicals Poland SA 5-200 WOLOMIN Lukasiewiczza 11A, Poland	Emergency Contact: Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
Trade Name(s): Dox 1 Pastilles	MSDS Number: 1535
Chemical Name: N,N-diaryl-paraphenylene diamine mixture	Synonyms: Diaryl PPD, DTPD, Mixed diaryl-p-phenylenediamine
Prepared By: Sovereign Chemical Company	Date of Issue: February 16, 2011 Revision Number: 3 (Supersedes: June 2, 2009) Change(s): Update First aid, fire fighting, incompatibility, toxicology, disposal, ecological, transportation.

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>
Daryl-p-phényle diamines	68953-84-4	100	NE	NE

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Steel brown pastilles. During fire situations fumes of nitrogen oxides and carbon monoxide may be emitted. Material can catch fire if strongly heated

Potential Health Effects:

Eye: Dust and fumes may cause irritation.

Skin Contact: May cause irritation.

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

Inhalation: May cause irritation.

Chronic & Carcinogenicity: No data available. Not expected to cause chronic health problems if proper protective measures are followed (see Section 8). No NTP or IARC materials.

4. FIRST AID MEASURES

Skin: Wash thoroughly with mild soap and water. Seek medical attention if irritation develops. Remove any contaminated clothing and launder thoroughly before reuse.

Eye: Flush with tepid water for at least 15 minutes holding the eyelids wide open. Remove any contact lenses. Avoid powerful water stream – risk of cornea damage. Seek medical attention if irritation develops.

Ingestion: Rinse mouth with water. Give plenty of water to drink. Consult a doctor – show the container or label. Never give anything by mouth to an unconscious person.

Inhalation: Remove exposed person to fresh air. Keep warm and calm. In case of some symptoms, consult a doctor – show the container or label.

5. FIRE FIGHTING MEASURES

Flash Point: ND **LEL:** ND **UEL:** ND **Auto Ignition Temperature:** ND

Use water spray, foam, carbon dioxide or dry powder to extinguish fires. Do not use water jet due to the risk of the propagation of the flame. May produce toxic fumes, e.g. Carbon oxide and nitrogen oxide, if burning. Do not inhale combustion products as it can be dangerous for health. A self contained breathing apparatus (SCBA) and full fire fighting protective clothing should be worn for combating fires.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective equipment (gloves, safety goggles/face protection, dust mask and protective clothing (see 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 spilled 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, cool, well ventilated environment. Protect against humidity and heating above 50°C. Keep away from fire source. Keep away from food, beverages or feed for animals.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Steel brown pastilles	Melt Point: 88-105°C (final)
Vapor Density (Air = 1): NA	Octanol/Water Partition Coefficient: ND
Vapor Pressure: NA	Evaporation Rate BuOAC = 1: NA
Odor: Slight amine	Specific Gravity: 1.18 Bulk Density: 0.665 g/cm ³
% Volatile by Volume: Not volatile	Boiling Point: NA
% Solubility (H₂O) : 10-15 mg/l	pH: NA
Other: Soluble in aromatic hydrocarbons	Thermal Decomposition: Thermally stable up to 200°C

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 high temperatures, humidity, and oxygen.

Hazardous Decomposition Products: None.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD₅₀ oral (rat) = >5000 mg/kg. Short term harmful effects are not expected by swallowing.

Skin irritation: No evidence of irritant effects from available information. LD₅₀ Rabbit dermal 2000 mg/kg.

Eye Irritation: No evidence of irritant effects from available information.

Sensitization: No data available.

Reproductive toxicity (oral): NOAEL 16 mg/kg. Criteria not met.

In vitro and vivo tests: Negative. Criteria not met.

Repeated/long-term exposure: No data available

Mutagenicity/carcinogenicity: No NTP or IARC ingredients

12. ECOLOGICAL INFORMATION

EC₅₀ Fish Oncorhynchus mykiss – 0.48 mg/l/4 dni

NOEC Fish Oncorhynchus mykiss – 0.14 mg/l/14 dni

EC₅₀ Daphnie Daphnia magna – 1.1-1.8 mg/l/48h

EC₁₀ Daphnie Daphnia magna – 0.0045 mg/l/21 dni

EC₅₀ Algae Selenastrum capricomutum - >0.079 mg/l/72h

NOEC Sludge Chironomus riparius – ok. 615.2 mg/l/28 dni

Product is very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Product should be disposed of in accordance with all local, state, and/or federal regulations.

14. TRANSPORTATION INFORMATION

US DOT and Canadian TDG: Not regulated under DOT Regulations. Freight Classification = Rubber Preservative, NOI

ADR, ICAO/IATA, IMDG: UN proper shipping name – Environmentally hazardous substances, Solid, N.O.S., Class 9, Packing Group III.

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.