

**SOVEREIGN CHEMICAL COMPANY**

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Material Safety Data Sheet**DUSANTOX IPPD Pastille****1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Manufacturer: DUSLO, A. S. Nobelova 34 836 03 Bratislava Slovakia Republic Phone (42) 0706/2561 drop 4100 Fax (42) 0706/5643 Fax (42) 0706/3000	Emergency Contact : Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
Trade Name(s): Dusantox IPPD Pastille	MSDS Number: 1175
Chemical Name: N -isopropyl -N'-phenyl-p-phenylenediamine	Synonyms: IPPD 1,4-benzenediamine, N-(1-methylethyl)-N'-phenyl
Prepared By: Sovereign Chemical Company	Date of Issue: April 1, 2008 (supersedes April 1, 2004) Revision Number: 10 Change(s): Updated Specific Gravity

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV/TWA)</u>	<u>OSHA (PEL/TWA)</u>
N-isoprpyl-N'-phenyl-p-phenylenediamine	101-72-4	95-99	NE	NE

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Purple-brown pastilles. 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. Avoid accumulation of dusts. Avoid prolonged or repeated contact with skin. May cause allergic skin reaction. Avoid breathing dust or vapors. Avoid high temperatures and contact with oxidants and acids.

HMIS Rating: Health – 1, Flammability – 1, Reactivity – 0, Personal Protection Equipment – E* (safety glasses, floves, dust mask)

*This is recommended personal protection equipment, final personal protection equipment should be determined by the plant safety department based on the actual conditions under which the product is used.

Potential Health Effects:

Eye: May cause slight eye irritation.

Skin Contact: May cause allergic skin reaction.

Ingestion: May be irritating to the mucous membranes of the gastro-intestinal tract.

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

Chronic & Carcinogenicity: Prolonged contact with skin may causes allergic reaction. The product is not known to be carcinogenic.

4. FIRST AID MEASURES

Skin: Wash off immediately with plenty of soap and water. Seek medical advice in case of skin rash.

Eye: Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: Remove visible material, clean the face with water: lie down quietly and seek medical advice.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 166°C (330°F) **LEL:** ND **UEL:** ND **Auto Ignition Temperature:** ND

Use water or other Class A media to extinguish fires. A self contained breathing apparatus (SCBA) operating in the positive pressure mode and full fire fighting protective clothing should be worn for combating fires. During a fire the product can form carbon monoxide and nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

Take up any spilled product by mechanical means (avoid dust formation) and place into sealed containers for proper disposal. Sources of ignition should be eliminated. 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 at high temperatures or near acids, oxidants or foodstuffs. 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. Wet mopping or vacuuming with a unit that contains a HEPA filter is recommended to clean up any dusts generated during processing or handling. Wear proper protective equipment (see 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: Dust mask is recommended. Avoid breathing dust or vapor of this material.

Eye Protection: Safety glasses are not required but are recommended.

Protection Gloves: Protective gloves should be worn.

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. A shower is recommended after handling product. Do not eat or smoke while handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Purple-brown pastilles	Melt Point: 76°C (169°F)
Vapor Density (Air = 1): Not applicable	Octanol/Water Partition Coefficient: .600±1.400
Vapor Pressure: 0.00343 mm Hg	Evaporation Rate BuOAC = 1: Not applicable
Odor: Aromatic	Specific Gravity: 1.090-1.105 g/cm ³ @ 20 ⁰ C
% Volatile by Volume: Not applicable	Bulk Density: 490-580 kg/m ³
% Solubility (H₂O) : Insoluble	Boiling Point: Not applicable
Other: None	pH: Not applicable

10. STABILITY AND REACTIVITY

Stability /Polymerization: Thermally stable to over 149°C (300°F). Hazardous polymerization does not occur.

Incompatibility (conditions to avoid): High temperatures and contact with acids and oxidants. If strongly heated, this product may catch fire and give off toxic fumes. Moisture will weaken product bag. Avoid contact with foodstuffs.

Hazardous Decomposition Products: Carbon monoxide and nitrogen oxides.

Special Sensitivity: None

11. TOXICOLOGICAL INFORMATION

LD₅₀ 900 mg/kg (oral, rat), slightly toxic.

LD₅₀ > 7940 mg/kg (dermal, rabbit), practically nontoxic.

Eye irritation (rabbit, FHSA) 1.3 on a score of 110.0, slightly irritating.

Skin irritation (rabbit, FHSA) 0.0 on a score of 8.0, nonirritating

12. ECOLOGICAL INFORMATION

96 hour LC 50 Trout:	0.34 mg/l, highly toxic
96 hour LC 50 Bluegill:	0.43 mg/l, highly toxic
96 hour LC 50 Flathead Minnow:	0.41 mg/l, highly toxic
48 hour LC 50 Daphnia:	1.1 mg/l, moderately toxic
96 hour EC 50 Algae, Cell Count:	0.5 mg/l, highly toxic
96 hour LC 50 Paratanytarsus Parthenogenetica:	23 mg/l, slightly toxic

13. DISPOSAL CONSIDERATIONS

When discarded, Dusantox IPPD is not a "hazardous waste" as that term is defined in 40 CFR 261, Identification and Listing of Hazardous Waste". Burn in an approved incinerator or dispose in approved chemical landfill in accordance with all applicable local, state and federal laws and regulations.

14. TRANSPORTATION INFORMATION

US DOT

DOT Proper Shipping Name: Not applicable.

DOT Hazard Class/I.D. No.: Not applicable

DOT Label: Not applicable

DOT Hazardous Substances: Not applicable

U.S. Surface Freight Classification: Rubber Preservative, N.O.I.B.N.

CANADIAN TDG

Not regulated

IMDG: Not Rgulated

IATA: Not Regulated

RID/ADR: Class 9, Packing Group III, UN # 3077, Environmentally Hazrdous Substance, N. O. S.(N-isopropyl-N'-phenyl-p-phenylenediamine).

This product is considered environmentally hazardous in Europe. Requires class 9 labelling and placards when shipped to & from Europe.

15. REGULATORY INFORMATION

CERCAL/RCRA: No reportable quantities or threshold planning quantities.

TSCA: All ingredients listed on the TSCA inventory list.

SARA Title III, Section 313: Not listed.

NRP, IARC, SUBPART Z, Proposition 54 (CA), Clean Air: Not listed.

WHMIS: listed (1%)

OSHA Hazard Communication Standard (29 CFR 1910.1200): This substance is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Canadian DSL: All ingredients are 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, March 2000

WHMIS Compliance Manual, Carswell, April 2000

Transportation of Dangerous Good, J.J.Keller, February 2000

Code of Federal Regulations, Transportation, 49 CFR Parts 100 to 185, October 1998

NIOSH Pocket Guide to Chemical Hazards, June 1997

ACGIH Threshold Limit Values, 1999

HMIS Implementation Manual, 2nd Edition

Toxicity and Safe Handling of Rubber Chemicals, BRMA, 3rd Edition

ChemCheck Handbook, Specialty Technical Publishers, March 2000

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.