# **Dow AgroSciences**

# **INTREPID\* 2F INSECTICIDE**

Emergency Phone: 800-992-5994 Dow AgroSciences LLC Indianapolis, IN 46268

Effective Date: 10-Oct-08 Product Code: 88799 MSDS: 007711

1. PRODUCT AND COMPANY IDENTIFICATION:	NOTE TO PHYSICIAN: Administer 100% oxygen to relieve
PRODUCT: Intrepid* 2F Insecticide	<sup>1</sup> headache and a general sense of weakness. Determine methemoglobin concentration of blood every 3 to 6 hours for first 24 hours. It should return to normal within 24 hours. The
COMPANY IDENTIFICATION: Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1189	treatment of toxic methemoglobinemia may include the intravenous administration of methylene blue. If methemoglobin >10-20% consider methylene blue 1-2 mg/kg body weight as 1% solution IV over 5 minutes followed by 15-30 cc flush (Price D, Methemoglobinemia,
2. HAZARDOUS IDENTIFICATIONS:	Goldfrank Toxicologic Emergencies, 5th ed., 1994). Also provide 100% oxygen. Methemoglobinemia may aggravate
EMERGENCY OVERVIEW Off-white liquid with a mild odor. EMERGENCY PHONE NUMBER: 800-992-5994	any pre-existing condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
3. COMPOSITION/INFORMATION ON INGREDIENTS:	5. FIRE FIGHTING MEASURES:
Methoxyfenozide: CAS # 161050-58-4 22.6% N-tert-butyl-N'-(3-methoxy- o-toluoyl)-3,5-xylohydrazide	FLASH POINT: Non-combustible METHOD USED: Not applicable
Balance, Total, Including 77.4%   Propylene Glycol CAS # 000057-55-6	FLAMMABLE LIMITS LFL: Not applicable
4. FIRST AID:	UFL: Not applicable

EYES: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

SKIN: Wash skin with plenty of water.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air; if effects occur, consult a physician.

**EXTINGUISHING MEDIA:** Use the following extinguishing media when fighting fires involving this material: carbon dioxide, dry chemical, water spray or foam.

FIRE & EXPLOSION HAZARDS: Pesticide particulates can become airborne. Dried product can burn. Combustion generates toxic fumes of the following: nitrogen oxides.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained breathing apparatus and full protective clothing. Do not allow water from fire-fighting to enter water supplies.

SPECIAL PROCEDURES: Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Contain run-off.

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6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS/LEAKS: Contain and absorb small spills with inert materials with sand or earth. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Avoid breathing vapor. Keep spills and cleaning run-off out of municipal sewers and open bodies of water. Report large spills to Dow AgroSciences at 800-992-5994. If exposed to material during clean-up operations, remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

7. HANDLING AND STORAGE:

**HANDLING:** Keep out of reach of children. Do not handle material near food, feed or drinking water. Avoid contact with eyes and skin.

**STORAGE:** Do not store this material near food, feed or drinking water. The minimum recommended storage temperature for this material is  $32\degree F$  (0°C). The maximum recommended storage temperature for this material is  $104\degree F$  (40°C). Store in a well-ventilated area. Keep container tightly closed when not in use.

**OTHER:** Dispose empty container in a sanitary landfill or as allowed by state and local authorities.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

## **EXPOSURE GUIDELINE(S):**

Methoxyfenozide: Dow AgroSciences Industrial Hygiene is 3 mg/M3 TWA respirable, 10 mg/M<sup>3</sup> inhalable. Propylene glycol: AIHA WEEL is 10 mg/M<sup>3</sup> TWA as aerosol.

**ENGINEERING CONTROLS:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

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### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator. In dusty or misty atmospheres, use a NIOSH approved particulate respirator.

**SKIN PROTECTION:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use safety glasses.

**APPLICATORS AND ALL OTHER HANDLERS:** Refer to the product label for personal protective clothing and equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

COLOR: Off-white APPEARANCE: Liquid ODOR: Mild pH: 6 to 7 (1% solution) VISCOSITY: 400 to 800 CPS SPECIFIC GRAVITY (WATER = 1): 1.1 (Estimate) VAPOR DENSITY (AIR = 1): <1 (Water) VAPOR PRESSURE: 17 mmHg @ 68°F (20°C) (Water) MELTING POINT: 32°F (0°C) (Water) BOILING POINT: 212°F (100°C) SOLUBILITY IN WATER: Dispersible PERCENT VOLATILITY: 61 to 62% (Water) EVAPORATION RATE (BAc = 1): <1 (Water)

## **10. STABILITY AND REACTIVITY:**

**STABILITY:** (CONDITIONS TO AVOID) Stable under normal storage conditions.

**INCOMPATIBILITY:** (SPECIFIC MATERIALS TO AVOID) Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Not known to occur.

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## 11. TOXICOLOGICAL INFORMATION: 13. DISPOSAL CONSIDERATIONS:

**POTENTIAL HEALTH EFFECTS:** This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: Essentially non-irritating to eyes.

**SKIN:** Brief contact is essentially non-irritating to skin. Did not cause allergic skin reactions when tested in guinea pigs. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The  $LD_{50}$  for skin absorption in rats is >2000 mg/kg.

**INGESTION:** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. The oral  $LD_{50}$  for rats and mice is >5000 mg/kg.

**INHALATION:** At room temperature, exposure to vapor is minimal due to low volatility. The aerosol  $LC_{50}$  for rats is >0.9 mg/L for 4 hours. Mist may cause irritation of upper respiratory tract (nose and throat).

## SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

Excessive exposure to methoxyfenozide may cause methemoglobinemia, thereby impairing the blood's ability to transport oxygen. In animals, effects have been reported on the following organs: blood, liver, kidney, and thyroid. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

**CANCER INFORMATION:** The major component(s) did not cause cancer in laboratory animals.

## TERATOLOGY (BIRTH DEFECTS): The major

component(s) did not cause birth defects or any other fetal effects in laboratory animals.

**REPRODUCTIVE EFFECTS:** The major component(s), in animal studies, did not interfere with reproduction.

**MUTAGENICITY:** In-vitro and animal genetic toxicity studies were negative.

#### 12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE: No relevant information found.

**DISPOSAL METHOD:** If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

### **14. TRANSPORT INFORMATION:**

# U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

For all package sizes by all modes of transportation: This material is not regulated for transport

## **15. REGULATORY INFORMATION:**

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

## **U.S. REGULATIONS**

**SARA 313 INFORMATION:** To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.



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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

A delayed health hazard

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**STATE RIGHT-TO-KNOW:** The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
1,2-PROPANEDIOL	000057-55-6	PA1
(propylene glycol)		

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health0Flammability0Reactivity0

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

## 16. OTHER INFORMATION:

MSDS STATUS: Revised Sections: 2 & 3 Reference: DR-0376-9899 Replaces MSDS Dated: 12-Oct-04 Document Code: D03-846-003 Replaces Document Code: D03-846-002

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Dow AgroSciences for Further Information.

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