



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### ADVANCE 4 - PHENOXYETHANOL (and) METHYLDIBROMO GLUTARONITRILE

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: 20% 1,2-Dibromo-2,4-dicyanobutane in 2-Phenoxyethanol

CAS #: 35691-65-7 and 122-99-6

DOT Hazard Class: Not Regulated

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

20% 1,2-Dibromo-2,4-dicyanobutane  
80% 2-Phenoxyethanol

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A clear liquid ranging in color from pale yellow to yellow.  
Harmful if swallowed. Irritating to eyes, respiratory system and skin.

POTENTIAL HEALTH EFFECTS:

**Skin:** Irritating to skin

**Eyes:** If brought into contact with the eyes, the product causes considerable irritation, which can last for over 24 hours.

**Inhalation:** Irritating to the respiratory tract.

**Ingestion:** The product is harmful following acute exposure to it and poses a serious health threat if ingested.

CARCINOGENICITY: Not Identifiable

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#### **SECTION 4 - FIRST AID MEASURES**

**Skin:** Immediately take off all contaminated clothing. Areas of the body that have or are only even suspected of having come into contact with the product must be rinsed immediately with large amounts of soap and running water.

**Eyes:** Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

**Ingestion:** Wash out mouth with water. Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present this safety-data sheet. A suspension of activated charcoal in water, or liquid paraffin may be administered.

**Inhalation:** Ventilate the premises. Respiratory protection not needed for normal use. If breathing is difficult, give oxygen. Remove to the fresh air. If not breathing give artificial respiration. The patient is to be removed immediately from the contaminated premises and made to rest in a well-ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

**On All Of The Above:** Consult a physician if symptoms persist.

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#### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: >150° C

Flammable Limits: Not Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire: Water, CO<sub>2</sub>, Foam and chemical powders, according to the materials involved in the fire. Extinguishers not to be used: None listed.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion.

Auto Ignition Temperature: Not Applicable

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#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spilled liquid with sand or earth. Place in a disposal container. Avoid runoff into storm sewers and ditches, which lead to waterways

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## **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing vapors. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

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## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Give adequate ventilation to the premises where the product is stored and/or handled.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from vapors. Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Approximately 240 °C

Vapor Pressure: 0.04 mbar @ 20 °C

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H<sub>2</sub>O=1): 1.18 – 1.20

Percent Volatile by Volume (%): Not Applicable

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: 0.4% @ 20 °C

pH: Not Applicable

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## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: May generate flammable gases on contact with caustic substances, and nitrides. May generate toxic gases on contact with mineral acids, aliphatic, aromatic amines and powerful oxidizing agents. May catch fire on contact with oxidizing mineral acids and elementary metals (sheets and bars).

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

LD50 (oral rat): <1000 mg/kg  
Human eye: 5% irritant, 0,5% not irritant  
Skin: Not sensitizer  
2-phenoxyethanol: LD50 (skin rabbit): 5000 mg/kg

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**SECTION 12 - ECOLOGICAL INFORMATION**

Adopt sound working practices, so that the product is not released into the environment.  
Readily biodegradable in dilute solution. COD (sol. 0,15%): 2,5 mg O<sub>2</sub>/g.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

Recover, if possible. Send to authorize disposal plants or far incineration under controlled conditions. Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME:

ADVANCE 4 - PHENOXYETHANOL (and) METHYLDIBROMO GLUTARONITRILE

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Acute health hazard.

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**SECTION 16 - OTHER INFORMATION**

Trade code: 15246 Main bibliographic sources  
NIOSH -Registry of toxic effects of chemical substances (1983) I.N.R.S. -Fiche Toxicologique  
CESIO -Classification and labeling of anionic, nonionic surfactants (1990)

Reason for Issue: Changed Date

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