Emergency Contact Information:

AccuStandard, Inc. 1-203-786-5290

Tel: 203-786-5290 Fax: 203-786-5287 SAFETY DATA SHEET

Hours: Monday to Friday 8:00am to 5:00pm EST

# SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

nc.

# 1.1 - Product Identifiers

Catalog Name: P-1027N

Description: 2,4-D isobutyl ester

CAS No.: 1713-15-1

# 1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

Standard.

125 Market St., New Haven, CT 06513 USA

# 1.3 - Supplier Details

Company: AccuStandard, Inc. 125 Market St. New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

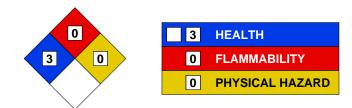
# 1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc. 1-203-786-5290 Hours: Monday to Friday 8:00am to 5:00pm EST

# **SECTION 2 - HAZARDS IDENTIFICATION**

# 2.1 - GHS Label Elements





## Signal Word: Danger

## Hazard Codes:

H301 - Toxic if swallowed. (Acute toxicity, oral, category 3)

H335 - May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 4)

## **Precautionary Codes:**

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P235 - Store in a cool dry place.

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

## **SECTION 2 - HAZARDS IDENTIFICATION** - continued

#### 2.1 - GHS Label Elements - continued

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P360 - Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

P404 - Store in a tightly closed container.

#### 2.2 - Other Hazards

#### 2.2.1 - Symptom of Exposure Health/Environment

May cause headache, nausea and vomiting.

#### 2.2.2 - Potential Health Effects

May be irritating to eyes.

May be irritating to skin.

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 4)

May be harmful if inhaled. (Acute toxicity, inhalation, category 5)

Toxic if swallowed. (Acute toxicity, oral, category 3)

#### 2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

#### 2.2.4 - Carcinogenicity

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

## **SECTION 3 - COMPOSITION / ANALYTES DATA**

Description: 2,4-D isobutyl ester

Synonyms: Acetic acid,2-(2,4-dichlorophenoxy)-, 2-methylpropyl ester

Molecular Weight: 277.14

Molecular Formula: C12H14Cl2O3

			ACGIH -TLV (mg/m <sup>3</sup> )			OSHA -PEL (mg/m <sup>3</sup> )		
Analyte	CAS Number	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
2,4-D isobutyl ester	1713-15-1	100.000						

## SECTION 4 - FIRST AID MEASURES

## 4.1 - First Aid Procedures - General

Get medical assistance for all cases of overexposure.

## 4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

### SECTION 4 - FIRST AID MEASURES - continued

#### 4.3 - Skin Contact

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. (P360)

## 4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

#### 4.5 - Ingestion

Ingestion: Call a physician or poison control center immediately. ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

## SECTION 5 - FIRE FIGHTING MEASURES

#### 5.1 - Flammable Properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

#### 5.2 - Extinguishing Media

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

#### 5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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

#### 6.1 - Spill Response

Wear suitable protective equipment listed under Exposure Controls / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.

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

Store in a tightly closed container. (P404)

Store in a cool dry place. (P235)

Avoid inhalation.

Use with adequate ventilation. (P271)

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

#### **SECTION 8 - EXPOSURE CONTROLS**

## 8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

### SECTION 8 - EXPOSURE CONTROLS - continued

#### 8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Compatible chemical-resistant protective gloves must be worn to prevent skin contact.

Safety glasses with side shields must be worn at all times.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid Odor: N/A Odor Threshold: N/A pH: N/A Melting Point: 93 °C Boiling Point: 338 - 339 °C Flash Point: 264 °F / 129 °C Evaporation Rate (Butyl Acetate=1): N/A Flammability Class: N/A Lower Flammability Level: N/A Upper Flammability Level: N/A Vapor Pressure: <0.01 mmHg @ 25 °C Vapor Density (Air = 1): N/A Specific Gravity: 1.24 g/cm3 Solubility in Water: 3.52 mg/L Partition Coefficient: log Pow: 4.3 Autoignition Temperature: N/A Decomposition Temperature: N/A Viscosity: N/A VOC Content: N/A Percent Volatile: N/A

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

Stability: Stable Materials to Avoid: Oxidizers Hazardous Decomposition: Oxides of carbon; Hydrogen chloride Hazardous Polymerization: Will not occur Condition to Avoid: Excessive heat

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

#### Human Health Toxicity

## SECTION 11 - TOXICOLOGICAL INFORMATION - continued

See section 2 for specific toxicological information for the ingredients of this product. LD50 (Oral): Rat - 300 mg/kg LD50 (Dermal) : Rat - >2000 mg/kg LC50 (Inhalation): N/A No other information related to the toxicological properties of this product is available at this time.

## **SECTION 12 - ECOLOGICAL INFORMATION**

## **Environmental Toxicity**

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: 720 - Threshold for concern

No other information related to the ecological properties of this product is available at this time.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

## SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA) UN Number: UN2811 UN Shipping Class: 6.1 UN Packing Group: III UN Proper Shipping Name: Toxic solid, organic, n.o.s. (Acetic acid,2-(2,4-dichlorophenoxy)-, 2-methylpropyl ester) Poison by Inhalation: No Marine Pollutant: No

## SECTION 15 - REGULATORY INFORMATION

The CAS number of this product is NOT listed on the TSCA Inventory.

This product is NOT subject to SARA section 313 reporting requirements.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

## **SECTION 16 - OTHER INFORMATION**

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

### NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

## SECTION 16 - OTHER INFORMATION - continued

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

## HMIS/NFPA HAZARD INDEX

- 0 Minimal
- 1 Slight
- 2 Moderate
- 3 Serious
- 4 Severe
- \* Additional Hazard

## **GHS HAZARD INDEX**

Category 1 - Most Severe Category 5 - Least Severe

\*\*\*\* End of Document \*\*\*\*