BASF Corporation BASF

#### **MATERIAL SAFETY DATA SHEET**

Agricultural Products Group P.O.Box 13528,

Research Triangle Park, NC 27709

**EMERGENCY TELEPHONE NUMBERS:** 

BASF Corporation: 1 (800) 832-HELP

CHEMTREC: 1 (800) 424-9300

Product No.: 598135 Poast® herbicide

Date Prepared: 4/22/86 Date Revised: 3/30/2000

**SECTION I** 

Trade Name: Poast® herbicide

Chemical Name: See Section II - Ingredients

Synonyms: Sethoxydim, NP-55 (active ingredients), Formula: C(17) H(29) O(3) N S

BAS 9052 06H, BAS 562 05H (formulation) (active ingredient)

Chemical Family: Cyclohexanones Mol Wt: 327.5 (active ingredient)

SECTION II - INGREDIENTS				
COMPONENT	CAS NO.	%	PEL/TLV - SOURCE	
Sethoxydim	74051-80-2	18	Not established	
Petroleum solvent, including	64742-94-5	74	100 ppm recommended by EXXON	
(naphthalene)	91-20-3	(7)	10 ppm ACGIH/OSHA	
Non-ionic emulsifier	9016-45-9	7	Not established	
Impurities	N/A	1	Not established	

Chemical name for sethoxydim:

2-[1-(ethoxyimino)butyl]-5-[2(ethylthio)propyl]-

3-hydroxy-2-cyclohexen-1-one

SARA Title III Section 313: Listed

**SECTION III - PHYSICAL DATA** 

BOILING/MELTING POINT @760mm Hg: N/D pH: 4 - 5 (as is)

VAPOR PRESSURE mmHg @ 20°C: 2

SPECIFIC GRAVITY OR BULK DENSITY: 0.935 g/mL 7.8 lb/gal

**SOLUBILITY IN WATER:** Forms emulsion

APPEARANCE: Light Amber Liquid ODOR: Aromatic INTENSITY: Moderate

**SECTION IV - FIRE AND EXPLOSION DATA** 

FLASH POINT (TEST METHOD): 145 °F as solvent AUTOIGNITION TEMP: approx. 443° C

FLAMMABILITY LIMITS IN AIR (% BY VOL): LOWER: 1.3 @ 70° C UPPER: 5.3 @ 103° C

NFPA 704 HAZARD CODES

HEALTH: 2 FLAMMABLE: 2 INSTABILITY: 1 OTHER:

NFPA 30 STORAGE CLASSIFICATION: Class IIIA

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EXTINGUISHING MEDIUM	Use water fog, foam or dry chemical extinguishing me	edia.	
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should be equipped with self-contained b	preathing apparatus and turnout gear.	
UNUSUAL FIRE EXPLOSION HAZARDS	None		
SELECT ACRONYM KEY			
N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established			

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# **SECTION V - HEALTH DATA**

#### **TOXICOLOGICAL TEST DATA:**

For Poast® herbicide (formulated product):

Rat, Oral LD50 = 4.1 g/kg

Rat, Dermal LD50 > 5 g/kg

Rat, Inhalation LC50 (4 hr) > 4.6 mg/L

Rabbit, Eye Irritation - Moderately irritating

Rabbit, Skin Irritation - Moderately irritating

Guinea pig, Dermal Sensitizer - Non-sensitizing

#### **EFFECTS OF OVEREXPOSURE:**

#### See Product Label and Directions For Use for additional precautionary statements.

**Precautionary Statements** 

Hazards to Humans and Domestic Animals

WARNING. Causes substantial but temporary eye injury. Do not get into eyes or on clothing. Harmful if swallowed. Inhalation of the mists/vapors results in irritation to the nose, throat and lungs.

For a component of this formulation:

Ingestion of naphthalene results in cramps, nausea, vomiting, and diarrhea; listlessness; bladder irritation and brownish urine. Inhalation of naphthalene may cause headache, confusion and excitement. Chronic overexposure to naphthalene may result in liver/kidney disorders. Hemolysis, anemia, fever, hemoglobinuria and jaundice may also occur.

Those with prior blood diseases may be more severely affected.

Acute overexposure to solvent naphtha vapors may cause central nervous system effects, including headache, dizziness, drowsiness, and confusion. Ingestion causes nausea, vomiting, blurred vision, and CNS disorder. Aspiration of the liquid into the lungs may result in chemical pneumonitis, which may be fatal.

Prolonged or repeated skin contact may cause defatting and dermatitis.

The following special studies have been performed for the active ingredient:

Skin sensitization (guinea pig) - negative

Teratogenicity (rat and rabbit) - negative

Reproduction studies (2 generations rat) - negative

# FIRST AID PROCEDURES

If swallowed: 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 by a poison control center or doctor.

If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison

control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present,

after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration,

preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for

treatment.

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# **SECTION VI - REACTIVITY DATA**

**STABILITY:** Stable

CONDITIONS TO AVOID: Heat, air, moisture

CHEMICAL INCOMPATIBILITY: Oxidizing agent

HAZARDOUS DECOMPOSITION PRODUCTS: SO(2), NOx during combustion

HAZARDOUS POLYMERIZATION: Does not occur

CONDITIONS TO AVOID: N/A

CORROSIVE TO METAL: No OXIDIZER: No

# **SECTION VII - PERSONAL PROTECTION**

PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

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

# **Respiratory Protection:**

Supplied air respirators should be worn if large quantities of vapors are generated or prolonged exposure possible.

#### **Eye Protection:**

Chemical goggles when respirator does not provide eye protection.

# **Protective Clothing:**

Gloves, long-sleeved shirt, and slacks.

#### Ventilation:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

# SECTION VIII - ENVIRONMENTAL DATA

### **ENVIRONMENTAL TOXICITY DATA**

Poast® herbicide has low avian toxicity and is not toxic to bees.

Bluegill Sunfish, 96 hour LC50 = 1.6 mg/L

Rainbow Trout, 96 hour LC50 = 1.2 mg/L

Daphnia magna, 48 hours LC50 = 2.6 mg/L

#### SARA 311/312 REPORTING

FIRE: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes TPQ(lbs): 10.000

#### **SPILL AND LEAK PROCEDURES:**

Eliminate all ignition sources. Wear rubber gloves, goggles and boots when cleaning up liquid spill. Recover and apply according to label whenever possible; otherwise, cover contaminated area with abosorbent material until dry. Spills should be contained, solidified, and placed in suitable containers for disposal in a licensed facility.

HAZARDOUS SUBSTANCE SUPERFUND: Yes RQ(lbs): 100

# **WASTE DISPOSAL METHOD:**

Wastes resulting from this product may be disposed of on site or at an approved wate disposal facility.

#### HAZARDOUS WASTE 40CFR261: No HAZARDOUS WASTE NUMBER: N/A

# **CONTAINER DISPOSAL:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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# SECTION IX - SHIPPING DATA - PACKAGE AND BULK

D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):

BULK (120 gallons or more) - Combustible Liquid, NOS

PACKAGE - None

**HAZARDOUS SUBSTANCE** (49CFR CERCLA LIST):

Naphthalene (RQ as product = 193 gallons)

**RQ(lbs):** 100

D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):

**PRIMARY** 

**SECONDARY** 

**BULK - Combustible Liquid** 

None

PKG - None

D.O.T. LABELS REQUIRED (49CFR172.101-102):

**D.O.T. PLACARDS** 

**REQUIRED (CFR172.504):** 

**POISON CONSTITUENT** 

(49CFR172.203(K)):

None

Combustible

None

BILL OF LADING DESCRIPTION

BULK - Combustible Liquid, NOS (contains Petroleum Distillate), NA 1993, PG III, RQ (Naphthalene), ERG 128,

Marine Pollutant

PACKAGE - Compounds, Tree or Weed Killing, (Herbicides), NOIBN

CC NO.: 431 (non-bulk); D72 (bulk)

**UN/NA CODE:** NA 1993

# SECTION X - ADDITIONAL INFORMATION

Poast® herbicide

EPA Reg. No. 7969-58

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO

Complete Label and Directions For Use are attached to the product.

### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

# **BASF Corporation**

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# **DISCLAIMER**

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