

MATERIAL SAFETY DATA SHEET

BASF Corporation

Agricultural Products Group
P.O.Box 13528,
Research Triangle Park, NC 27709
(919) 547-2000

Product No.: 598142

BASAGRAN® herbicide

Date Prepared: 5/4/87 Date Revised: 6/30/99

SECTION I

Trade Name: **BASAGRAN® herbicide**

Chemical Name: See Section II - Ingredients

Synonyms: **Sodium Bentazon (active ingredient)
BAS 351 32H (formulation)**

Formula: **C(10)H(11)N(2)NaO(3)S
Sodium Bentazon**

Chemical Family: **Benzothiadiazole**

Mol Wt: **262.2 Sodium Bentazon**

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Sodium Bentazon	50723-80-3	44	5 mg/m(3) BASF Corp. recommendation
Inerts	N/A	56	Not established

CHEMICAL NAME:

{3-(1-methylethyl)-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide}

N/A = Not Applicable; N/D = Not Determined

SARA Title III Section 313: **Not Listed**

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT@760MM Hg: **212 °F** pH: **8 - 9**

VAPOR PRESSURE mmHg @ 20°C: **N/D**

SPECIFIC GRAVITY OR BULK DENSITY: **1.19 g/mL** **9.9 lb/gal**

SOLUBILITY IN WATER: **Infinite**

APPEARANCE: **Brown liquid** ODOR: **Unusual - sweet** INTENSITY: **Mild**

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): **N/D** AUTOIGNITION TEMP: **N/D**

FLAMMABILITY LIMITS IN AIR (% BY VOL): LOWER: **N/D** UPPER: **N/D**

NFPA 704 HAZARD CODES

HEALTH: **1** FLAMMABLE: **0** REACTIVITY: **0** OTHER:

NFPA 30 STORAGE CLASSIFICATION: **Class III B**

EXTINGUISHING MEDIUM Use water fog, foam, CO₂, or dry chemical extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

UNUSUAL FIRE -EXPLOSION HAZARDS None

EMERGENCY TELEPHONE NUMBERS**BASF 1(800) 832-HELP****CHEMTREC 1(800) 424-9300**

These numbers available days, nights, and holidays.

SECTION V - HEALTH DATA**TOXICOLOGICAL TEST DATA:**

Rat, Oral LD50 = 2063 mg/kg

Dermal LD50 > 10000 mg/kg

Mouse, Inhalation LC50 > 8 mg/L

Rabbit, Eye Irritation - Mild irritation

Rabbit, Skin Irritation - Mild irritation

OSHA, NTP, or IARC Carcinogen: Not listed**EFFECTS OF OVEREXPOSURE:****See Product Label and Directions For Use for additional precautionary statements.**

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

If ingested in sufficient quantities, causes nausea, vomiting, diarrhea, and tremors.

Causes reversible irritation, redness, swelling to eyes and abraded skin.

May cause allergic skin response.

Inhalation hazard of vapors is not anticipated at normal temperatures.

Excessive inhalation of mist may cause irritation of mucous membranes.

Existing medical conditions aggravated by exposure to this material:

No information found for this mixture.

FIRST AID PROCEDURES**Statement of practical treatment****If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.**If on skin:** Wash with plenty of soap and water. Get medical attention.**If in eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.**SECTION VI - REACTIVITY DATA****STABILITY:** Stable**CONDITIONS TO AVOID:** Do not allow to freeze.**CHEMICAL INCOMPATIBILITY:** Per label, use only with recommended surfactants.**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion may generate SO(2).**HAZARDOUS POLYMERIZATION:** Does not occur.**CONDITIONS TO AVOID:** Not Applicable.**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 mist 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**

BASAGRAN® herbicide is not acutely toxic to fish or wildlife.

The following data is available for the active ingredient:

Aquatic Tox: (Relatively non-toxic to aquatic organisms)

Rainbow Trout, 96 hr LC50 > 100 mg/L

Bluegill Sunfish, 96 hr LC50 > 100 mg/L

Daphnia magna, 48 hr EC50 > 500 mg/L

Algae, 96 hr EC50 > 30 mg/L

Avian Tox:

Bobwhite Quail, LD50 = 1140 mg/kg

Bobwhite Quail, LC50 > 5000 mg/L

Mallard Duck, LC50 > 5000 mg/L

Environmental Fate:

Soil - aerobic photodegradation 1/2 life 4 months.

Hydrolysis does not occur; do not contaminate groundwater.

SECTION X - ADDITIONAL INFORMATION**BASAGRAN® herbicide****Postemergence Herbicide**

A soluble liquid formulation containing:

Active Ingredient

Sodium salt of bentazon*

44%

Inert Ingredients

56%

Total

100%

*Equivalent to 4 pounds per gallon of bentazon (3-(1-methylethyl)-1H-2,1,3-benzothiadiazin-4(3H)-one 2,2-dioxide)

EPA Reg. No. 7969-45

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.

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