
FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Balan DF

Synonyms and Chemical name: Benefin: N-butyl-N-ethyl-alpha,alpha, alpha-trifluoro-2,6-dinitro-p-toluidine
EPA Reg. No.: 34704-746

Company ID: Platte Chemical Company
419 18th Street
Greeley, CO 80631

Phone #s: Emergency Phone Number: **CHEMTREC 1-800-424-9300**
Medical Emergency Phone Number: **1-800-228-5635 extension 136**

Revisions: New ANSI format

MSDS Number: 000746

Date: 07/27/00

Supersedes: 5/23/97

2. COMPOSITION INFORMATION ON INGREDIENTS

	Percent by Weight
Chemical Ingredients: <i>Active Ingredient:</i> Benefin (CAS: 1861-40-1)	60 %
<i>Inert Ingredients:</i>	40 %

See section 8 for Personal protective Equipment (PPE)

3. HAZARDS IDENTIFICATION

Emergency Overview: *This formulation is considered to be low toxicity. The most likely routes of entry are dermal and inhalation. The product is a yellow-orange granule with an aromatic odor. There have no reports from the field of significant exposure of workers to Balan DF. Avoid excessive heat and sunlight.*

Potential Adverse Health Effects: Pre-existing skin disorders may be aggravated by exposure. There have been reports of nausea, headache, rash, eye irritation and dyspnea. None of components are listed as a potential carcinogen. Rare or singular events also reported: fever, paresthesia, drowsiness, aplastic anemia, anaphylactoid reaction, syncope, abdominal cramping, coughing, liver pain, loss of memory, diaphoresis, mouth burning, hand burning, face edema, loss of taste, muscle spasm and dizziness.

Likely routes of Exposure: Dermal and Inhalation

Dermal Contact: This formulation may cause acute effects of repeated or prolonged exposure, be sure and wear the proper protective equipment (PPE), see section 8. **Inhalation Contact:** This formulation will cause mild irritation to respiratory tract, wear proper PPE, see section 8.

Potential Health Effects: Solvent vapor may irritate eyes and may cause moderate eye irritation with corneal injury. Single dose oral ingestion of product is considered of low toxicity. This product does not cause cancerous tumors.

4. FIRST AID MEASURES

If on Skin: Remove all contaminated clothing. Wash skin, hair and fingernails thoroughly with soap and water. If irritation persists seek medical attention. Wash clothing before reuse.

If Inhaled: Remove to fresh air. If breathing is difficult, please administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

If Swallowed: Do not induce vomiting. If available, administer activated charcoal (6-8 heaping teaspoonful) with a large quantity of water. Do not give anything by mouth to an unconscious person. Call a physician to get medical attention, the emergency telephone number is 1-800-228-5635 extension 136.

If in eyes: Flush with running water for at least 15 minutes while holding open eyelids to help flush out material. If irritation persists, seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: Does not flash **Flammable Limits:** LEL: 0.10 oz/cf UEL: Not determined

Fire Extinguishing Media: Carbon dioxide, dry chemical

Special Fire Fighting Procedures: If formulation involved in a fire, noxious fumes may be produced. Wear self-contained breathing apparatus and full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area of intense smoke.

Unusual Fire or Explosion Hazards: If water is used to fight fire, contain run-off, using dikes to prevent contamination of water supplies. Keep containers cooled with water spray.

6. ACCIDENTAL RELEASE MEASURES

Release or Spill: Contain spill, absorb with clay or other absorbent material; sweep up material and place in container for possible land application according to label use or for proper disposal. Check local, state and federal regulations for proper disposal.

7. HANDLING AND STORAGE

Keep out of reach of children. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist and other contact with skin, eyes or clothing. See Section 8 for PPE. Do not contaminate water supplies by handling and storage of product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment:

Eye Protection: Chemical goggles or shielded safety glasses

Skin Protection: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear waterproof gloves.

Respiratory Protection: In enclosed spaces, use MSHA/NIOSH approved dust respirator.

Ventilation: Not normally required. If vapors exceed the acceptable levels, Wear MSHA/NIOSH approved respirator with cartridges for pesticide vapors. Local exhaust ventilation may be necessary for some operations.

EPA Handler Requirements WORKER PROTECTION STANDARD 40 CFR 170

Note, the following PPE requirements address handler/applicator requirements under FIFRA and may differ from what is felt necessary to address a clean up needs during formulation/manufacturing or other incidents with this product.

Personal protective Equipment: Applicators and other handlers must wear:

Long-sleeve shirt and long pants, waterproof gloves plus shoes and socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other domestic laundry.

9. Physical and Chemical Properties

Appearance: Yellow-orange granule **Odor:** Aromatic solvent odor

Solubility: Disperses in water

pH: 6.5 (50/50 aqueous)

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable **Conditions to Avoid:** Do not store above 120°F and avoid freezing.

Incompatibility with Other Materials: Do not store in direct sunlight

Hazardous Decomposition Products: Will emit toxic vapors as it burns. Oxides of carbon formed from combustion.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat) 500 mg/kg **Acute Dermal LD 50 (rabbit)** > 2000mg/kg

Eye Irritation: Moderate **Skin Irritation:** Slight **Inhalation:** Slight

12. ECOLOGICAL INFORMATION

Toxic to fish and other aquatic organisms. Do not contaminate water supplies.

13. DISPOSAL CONSIDERATIONS

Check local, state and federal regulations prior to disposal. Plastic Jugs: Triple rinse (or equivalent) , Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

14. TRANSPORT INFORMATION

Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS.

This formulation not regulated by highway by DOT.

U.S. Surface Freight Classification: Compound, Tree or Weed Killing, NOI (NMFC 50320, SUB 2:Class: 60)

15. REGULATORY INFORMATION

SARA, Title III, Section 313: None

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	2 Health	0 Least	2 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	HPPE

SARA Title III Hazard Category:

Immediate <u>Y</u>	Fire <u>N</u>	Sudden Release of Pressure <u>N</u>
Delayed <u>N</u>	Reactive <u>N</u>	

Reportable Quantity (RQ) under U.S. CERCLA: None

16. OTHER

Reasons for revision: New CMA & ANSI Format

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Approved by: Environmentally/ Regulatory Services

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