



BUTRALIN SUCKER CONTROL

Version: 1.6
Date of Issue: 12/22/2008
Date printed: 01/24/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BUTRALIN SUCKER CONTROL EPA Reg. No. 33688-4-400

Chemical name: [(4-(1,1-dimethylethyl)-n-(1-methylpropyl)-2,6-dinitrobenzamine)]

Use of substance/preparation: Plant Growth Regulator

Supplier: Chemtura Corporation
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300, 703-527-3887
Chemtura Corporation Emergency Response (24 hours) 800-292-5898

Environmental, Health and Safety Department: 866-430-2775

Prepared by Product Safety Department Date of Issue: 12/22/2008
(US) +1 866-430-2775
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Email: MSDSRequest@chemtura.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER!

CAUSES SEVERE EYE IRRITATION.
MAY CAUSE PERMANENT EYE DAMAGE.
MAY BE HARMFUL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.
MAY BE IRRITATING TO SKIN.
MAY CAUSE AN ALLERGIC SKIN REACTION.
FUMES OR VAPOR FROM HEATED MATERIAL MAY BE TOXIC AND/OR IRRITATING TO EYES, SKIN, MUCOUS MEMBRANE AND RESPIRATORY TRACT.
VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
HEADACHE

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT
N-sec-Butyl-4-tert-butyl-2,6-dinitroaniline CAS# 33629-47-9	37.3
Naphthalene CAS# 91-20-3	< 6



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1,2,4-Trimethylbenzene
CAS# 95-63-6

< 2

Ingredients not precisely identified are non-hazardous and/or proprietary.

4. FIRST AID MEASURES

Swallowing

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 do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

5. FIRE-FIGHTING MEASURES

Flash point: 149 °F 65 °C
Autoignition temperature: Not available

NFPA CLASSIFICATION

Health: 1	Flammability: 2	Reactivity: 0	Special provisions:
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Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus.

Extinguishing media

Suitable: Large fires:
- alcohol-type foam or universal-type foams
Small fires:
- CO2
- dry chemical
- water spray

Unsuitable: - water jets

Unusual fire and explosion hazards

This material may produce a floating fire hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment., Avoid contact with eyes and skin.

(M)SDS# 000000034170



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Environmental precautions

Prevent from entering sewer system, surface water or soil.

Methods for cleaning up

Observe government regulations.

Small spills: Absorb on inert material such as sand, earth, vermiculite.
Collect for disposal.

Large spills Dike to contain spill.
Pump excess material into suitable container (metal drums, metal tank, or such).

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Do not eat, drink or smoke when handling., Avoid contact with eyes, skin and clothing., Avoid breathing vapor, aerosol and mist., Use with adequate ventilation., Wash thoroughly after handling.

Other precautions

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE

Storage requirements

Store in a cool, dry place.

Storage materials:

Unsuitable: Avoid standard polyethylene, tin and varnished tin because slight to strong corrosion may occur in relation with moisture, chloride and temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Naphthalene	USA	TWA, OSHA	50 mg/m ³ 10 ppm 10 ppm	
				IARC 2B
	USA	STEL, OSHA	75 mg/m ³ 15 ppm 15 ppm	
		TWA (skin), ACGIH	10 ppm 10 ppm	
		STEL, ACGIH	15 ppm 15 ppm	
1,2,4-Trimethylbenzene		TWA, OSHA	125 mg/m ³ 25 ppm 25 ppm	
		TWA, ACGIH	25 ppm 25 ppm	



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PERSONAL PROTECTION

Respiratory protection

In the absence of engineering controls sufficient to maintain airborne concentrations below recommended occupational exposure limit values, appropriate respiratory protection should be utilized. The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation. The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned. For emergency conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus.

Hand protection / protective gloves

Chemical resistant protective gloves

Eye protection

Safety glasses with side shields.

Skin protection

Chemical protective clothing.

Other protective equipment

Eye bath, Safety shower

Industrial hygiene measures

Before eating, drinking or smoking, wash hands and face thoroughly with soap and water.

ENGINEERING CONTROLS

Ventilation

General (mechanical) room ventilation is expected to be satisfactory. Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Liquid
Color	Yellow/light orange
Odor	Aromatic
Odor threshold	Not available

OTHER PROPERTIES

Boiling point	265 °C Decomposes
Melting point	Not applicable
pH	6.7
Density	0.975 g/cm3
Solubility in water	Not available
Solubility in organic solvents	No data available.
Partitioning coefficient	Not available
Flash point	149 °F 65 °C Method: Tag Closed Cup
Autoignition temperature	Not available



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10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Hazardous reactions: Avoid standard polyethylene, tin and varnished tin because slight to strong corrosion may occur in relation with moisture, chloride and temperature.

11. TOXICOLOGICAL INFORMATION

GENERAL

The following information is based on analogy with a similar material.

SWALLOWING

Test results

Acute toxicity: LD50 Rat
Result: > 2,000 mg/kg

SKIN ABSORPTION

Test results

Acute toxicity: LD50 - Rabbit
Result: > 2,000 mg/kg

INHALATION

Test results

Acute toxicity: LC50 - Rat
Result: > 7.28 mg/l
Exposure time: 4 h

SKIN CONTACT

Test results

Skin irritation: Species: Rabbit
Result: Slight

EYE CONTACT

Test results

Eye irritation: Species: Rabbit
Result: Irritant

SENSITIZATION

Test results: Remark: Non sensitizing.

MUTAGENICITY

Assessment: Ames-test: no mutagenic effect

12. ECOLOGICAL INFORMATION

<u>Component ecotoxicology</u> N-sec-Butyl-4-tert-butyl-2,6-dinitroaniline <u>Acute toxicity fish:</u>	LC50 - Bluegill (<i>Lepomis macrochirus</i>) Result: 1.0 mg/l Exposure time: 96 h
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Component ecotoxicology N-sec-Butyl-4-tert-butyl-2,6-dinitroaniline <u>Acute toxicity fish:</u>	LC50 - Rainbow trout (Oncorhynchus mykiss) Result: 0.37 mg/l Exposure time: 96 h
Component ecotoxicology N-sec-Butyl-4-tert-butyl-2,6-dinitroaniline <u>Acute toxicity to aquatic invertebrates:</u>	- Water flea (Daphnia magna) Result: 0.12 mg/l Exposure time: 48 h

13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations., Do not discharge to sewers and natural waters.

14. TRANSPORT INFORMATION

DOT Classification

If shipped in containers >=450 l (119 US gal), this product is regulated as: COMBUSTIBLE LIQUID, N.O.S., NA 1993, PGIII, ERG 128

Proper shipping name: COMBUSTIBLE LIQUID, N.O.S.
Class: COMBUSTIBLE LIQUID
UN ID #: NA1993
Packing group: III
RQ:

IMDG Classification

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class: 9
UN ID #: UN 3082
Packing group: III
Marpol: MARINE POLLUTANT

ICAO/IATA Classification

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class: 9
UN ID #: UN 3082
Packing group: III

marine pollutant

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Naphthalene	91-20-3	< 6.00

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.



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Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Naphthalene	91-20-3	< 6.00
1,2,4-Trimethylbenzene	95-63-6	< 2.00
**** NONE ****		

Aromatic hydrocarbon	Trade secret	CHEM462
N-sec-Butyl-4-tert-butyl-2,6-dinitroaniline	33629-47-9	
Surfactant blend	Trade secret	CROM406
Naphthalene	91-20-3	
1,2,4-Trimethylbenzene	95-63-6	

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard, Delayed Health Hazard, Fire Hazard

California Proposition 65

This product contains Naphthalene which the State of California has found to cause cancer.

CHEMICAL INVENTORY

United States: This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from TSCA Inventory listing requirements.

16. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

HMIS RATING

Health: 1	Flammability: 2	Reactivity: 0	PPI: X
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STP	Standard temperature and pressure
W/W	Weight/Weight 0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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