

## SAFETY DATA SHEET

Issue Date 02-Dec-2003 Revision Date 17-May-2013 Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Foremost 5050-ES Weed Zapper

Other Means of Identification

**SDS #** FM-002

UN/ID No NA1993 Product Code 5050-ES

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Herbicide.

**Details of the Supplier of the Safety Data Sheet** 

**Supplier Address** 

Delta Foremost Chemical Corporation 3915 Air Park St. Memphis, Tennessee 38118

**Emergency Telephone Number** 

Company Phone Number (901) 363-4340

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

## Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 3

# Signal Word Warning

### **Hazard Statements**

Causes skin irritation
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure
Flammable liquid and vapor



Appearance Dark amber liquid

Physical State Liquid

**Odor** Characteristic

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment Use only non-sparking tools

Take precautionary measures against static discharge

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

In case of fire: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store in a well-ventilated place.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

#### **Other Hazards**

Toxic to aquatic life with long lasting effects

Toxic to aquatic life

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Petroleum Distillate	68476-34-6	Proprietary
n-Butyl Alcohol	71-36-3	Proprietary
Phenol	108-95-2	Proprietary
Bromacil	314-40-9	Proprietary

Product contains a proprietary mixture of ingredients.

#### 4. FIRST AID MEASURES

#### **First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Flush immediately with copious amounts of water for 15 minutes. If irritation persists, see

physician.

Skin Contact Flush thoroughly with water and cleanse with soap and water. Remove contaminated

clothes and wash before reuse. Get medical attention if irritation occurs.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison

center if individual's condition declines or if symptoms persist.

**Ingestion** Give 2-4 glasses of water, induce vomiting, pump stomach. See physician immediately.

#### Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Nausea, irritation to eyes, nose and throat. May absorb through skin and cause toxic effects

and damage to kidneys, spleen, pancreas and liver.

#### Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Foam, carbon dioxide or dry chemical extinguisher.

Unsuitable Extinguishing Media Water jet.

#### **Specific Hazards Arising from the Chemical**

Flammable.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

#### **Protective Equipment and Precautions for Firefighters**

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

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate

affected area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in

immediate area).

**Environmental Precautions**This product may be toxic to fish; prevent run off to sewers, streams, lakes and other

bodies of water.

#### Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry

sand or earth).

Methods for Cleaning Up

Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material

and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste

disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

## **Precautions for Safe Handling**

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Keep out of the reach of children. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not apply directly to or permit this product to come in contact with desirable plants, woody, or herbaceous plants. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Do not breathe vapors or spray mist. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep containers closed when not in use. Apply only as

specified on label.

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#### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Do not store near fertilizers,

seeds, insecticides, or fungicides.

Incompatible Materials Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum Distillate	TWA: 100 mg/m <sup>3</sup> total	-	-
68476-34-6	hydrocarbons inhalable fraction		
	and vapor, S*		
n-Butyl Alcohol	TWA: 20 ppm	TWA: 100 ppm	IDLH: 1400 ppm
71-36-3		TWA: 300 mg/m <sup>3</sup>	Ceiling: 50 ppm
		(vacated) Š*	Ceiling: 150 mg/m <sup>3</sup>
		(vacated) Ceiling: 50 ppm	
		(vacated) Ceiling: 150 mg/m <sup>3</sup>	
Phenol	TWA: 5 ppm	TWA: 5 ppm	IDLH: 250 ppm
108-95-2	S*	TWA: 19 mg/m <sup>3</sup>	Ceiling: 15.6 ppm 15 min
		(vacated) TWA: 5 ppm	Ceiling: 60 mg/m <sup>3</sup> 15 min
		(vacated) TWA: 19 mg/m <sup>3</sup>	TWA: 5 ppm
		(vacated) S*	TWA: 19 mg/m <sup>3</sup>
Bromacil	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 1 ppm	TWA: 1 ppm
314-40-9		(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

#### **Appropriate Engineering Controls**

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the

exposure limit(s) outlined in the SDS.

#### Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection** Goggles or face shield.

Skin and Body Protection Wear protective Neoprene™ gloves, Rubber gloves. An apron or other impermeable body

protection is suggested.

**Respiratory Protection** Solvent type mask.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State Liquid

AppearanceDark amber liquidOdorCharacteristicColorDark amberOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not determined Melting Point/Freezing Point Not available

Boiling Point/Boiling Range 171.11 °C / 340 °F

Flash Point  $54.44 \, ^{\circ}\text{C} \, / \, 130 \, ^{\circ}\text{F}$  Tag Closed Cup Evaporation Rate  $475 \, \text{(butyl acetate = 1)}$ 

Flammability (Solid, Gas) Not determined

Upper Flammability Limits 8.0% Lower Flammability Limit 0.9%

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Voney Programs Not listed

Vapor Pressure Not listed
Vapor Density Not listed
Specific Gravity 0.950

Specific Gravity 0.859 (1=Water)

Water Solubility Not soluble **Solubility in Other Solvents** Not determined **Partition Coefficient** Not determined **Autoignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

## 10. STABILITY AND REACTIVITY

## Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible Materials**

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide, hydrogen chloride, phenolics.

#### 11. TOXICOLOGICAL INFORMATION

## Information on Likely Routes of Exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May be harmful if swallowed.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
n-Butyl Alcohol	= 790 mg/kg (Rat)	= 3400 mg/kg ( Rabbit )	> 17.7 mg/L (Rat) 4 h
71-36-3			= 8000 ppm (Rat) 4 h
Phenol	= 317 mg/kg (Rat)	= 525 mg/kg (Rat)	= 316 mg/m <sup>3</sup> (Rat) 4 h
108-95-2		= 630 mg/kg ( Rabbit )	
Bromacil	= 641 mg/kg (Rat)	> 2500 mg/kg (Rat)	-
314-40-9		> 5 g/kg (Rabbit)	

## Information on Physical, Chemical and Toxicological Effects

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Symptoms

Please see section 4 of this SDS for symptoms.

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum Distillate	A3	Group 3		
68476-34-6				
Phenol		Group 3		
108-95-2				
Bromacil	A3			
314-40-9				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

#### **Numerical Measures of Toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

#### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum Distillate		35: 96 h Pimephales promelas	moroorganisms	
68476-34-6		mg/L LC50 flow-through		
n-Butyl Alcohol 71-36-3	500: 96 h Desmodesmus subspicatus mg/L EC50 500: 72 h Desmodesmus subspicatus mg/L EC50	1730 - 1910: 96 h Pimephales promelas mg/L LC50 static 1740: 96 h Pimephales promelas mg/L LC50 flow-through 100000 - 500000: 96 h Lepomis macrochirus µg/L LC50 static 1910000: 96 h Pimephales promelas µg/L LC50 static		1983: 48 h Daphnia magna mg/L EC50 1897 - 2072: 48 h Daphnia magna mg/L EC50 Static
Phenol 108-95-2	46.42: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.0188 - 0.1044: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 187 - 279: 72 h Desmodesmus subspicatus mg/L EC50 static	11.9 - 50.5: 96 h Pimephales promelas mg/L LC50 flow-through 20.5 - 25.6: 96 h Pimephales promelas mg/L LC50 static 32: 96 h Pimephales promelas mg/L LC50 static 32: 96 h Pimephales promelas mg/L LC50 5.449 - 6.789: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 7.5 - 14: 96 h Oncorhynchus mykiss mg/L LC50 static 4.23 - 7.49: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.0 - 12.0: 96 h Oncorhynchus mykiss mg/L LC50 13.5: 96 h Lepomis macrochirus mg/L LC50 static 11.9 - 25.3: 96 h Lepomis macrochirus mg/L LC50 flow-through 11.5: 96 h Lepomis macrochirus mg/L LC50 semi-static 34.09 - 47.64: 96 h Poecilia reticulata mg/L LC50 static 31: 96 h Poecilia reticulata mg/L LC50 semi-static 27.8: 96 h Brachydanio rerio mg/L LC50 0.00175: 96 h Cyprinus carpio mg/L LC50 semi-static 33.9 - 43.3: 96 h Oryzias latipes mg/L LC50 flow-through 23.4 - 36.6: 96 h Oryzias latipes mg/L LC50 static	EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min	4.24 - 10.7: 48 h Daphnia magna mg/L EC50 Static 10.2 - 15.5: 48 h Daphnia magna mg/L EC50

Bromacil	180 - 192: 96 h Pimephales	
314-40-9	promelas mg/L LC50 flow-through	
	32: 96 h Lepomis macrochirus mg/L	
	LC50 static 30 - 40: 96 h	
	Oncorhynchus mykiss mg/L LC50	
	static	

#### Persistence and Degradability

Not determined

#### Bioaccumulation

Not determined

#### **Mobility**

Chemical Name	Partition Coefficient
n-Butyl Alcohol	0.785
71-36-3	
Phenol	1.47
108-95-2	
Bromacil	2.11
314-40-9	

### **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

	Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
	n-Butyl Alcohol		Included in waste stream:		U031
	71-36-3		F039		
Γ	Phenol	U188	Included in waste streams:		U188
	108-95-2		F039, K001, K022, K087		

Chemical Name	California Hazardous Waste Status
n-Butyl Alcohol	Toxic
71-36-3	
Phenol	Toxic
108-95-2	Corrosive

## 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

<u>DOT</u>

UN/ID No NA1993

Proper Shipping Name Combustible liquid, n.o.s.

Hazard Class N/A
Packing Group III
Reportable Quantity (RQ) 5000 lbs

TATA

<u>IATA</u>

UN/ID No NA1993

**Proper Shipping Name** Combustible liquid, n.o.s.

Hazard Class N/A Packing Group III

**IMDG** 

UN/ID No NA1993

**Proper Shipping Name** Combustible liquid, n.o.s.

Hazard Class N/A Packing Group III

## 15. REGULATORY INFORMATION

#### **International Inventories**

Not Determined

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **US Federal Regulations**

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
n-Butyl Alcohol	5000 lb		RQ 5000 lb final RQ
71-36-3			RQ 2270 kg final RQ
Phenol	1000 lb	1000 lb	RQ 1000 lb final RQ
108-95-2			RQ 454 kg final RQ

## **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
n-Butyl Alcohol	71-36-3	Proprietary	1.0
Phenol	108-95-2	Proprietary	1.0
Bromacil	314-40-9	Proprietary	1.0

#### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phenol	1000 lb	X	X	X
108-95-2				

#### **US State Regulations**

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Petroleum Distillate 68476-34-6			
n-Butyl Alcohol X 71-36-3		X	X

Phenol	X	X	X
Phenol 108-95-2			
Bromacil 314-40-9	X	X	X
314-40-9			

## 16. OTHER INFORMATION

NFPA	<b>Health Hazards</b>	Flammability	Instability	Special Hazards
	2	2	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	0	Not determined

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#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**