



SAFETY DATA SHEET

Revision Date 27-May-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Foremost 4504-ES Flow Away

Product Code 4504-ES

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Industrial cleaner.

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 1 Sub-category B
Serious Eye Damage/Eye Irritation	Category 1
Acute Toxicity – Oral	Category 4
Acute Toxicity – Dermal	Category 4
Acute Toxicity – Inhalation	Category 4

Signal Word

DANGER

Hazard Statements

Causes severe skin burns and eye damage
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled



Appearance Film-wrapped tablet

Physical State Solid

Odor Odorless

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Do not eat, drink, or smoke when using this product

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethanol	64-17-5	Proprietary
Alkyl(60%C14,30%C16,5%C12,5%C18)Dimethyl Benzyl Ammonium Chloride	68391-01-5	Proprietary
Alkyl(68%C12,32%C14)Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	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	Wash eyes immediately with large amount of water, lifting upper and lower lids occasionally. Get medical attention immediately.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If irritation persists, seek medical attention.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Ingestion	Do not induce vomiting. If person is conscious, give large quantities of water, milk, or an acidic beverage. Get medical attention immediately.

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

EYES AND SKIN: Irritation to eyes, nose, and throat. Causes skin irritation and corrosive action upon body tissue.

INGESTION: Causes severe burns to mouth, throat, and stomach.

Indication of any Immediate Medical Attention and Special Treatment Needed**Note to Physicians**

Prolonged exposure will cause severe burns with scarring. Contact to eyes cause rapid tissue destruction leading to permanent eye damage and possible blindness.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Foam, carbon dioxide or dry chemical extinguisher.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

UNUSUAL FIRE AND EXPLOSION HAZARD: Acid, flammable liquids, organic halogenated compounds and, contact with nitro compounds, may form shock sensitive salts.

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. Use air-supplied equipment for enclosed areas.

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. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions

See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up**Methods for Containment**

Prevent further leakage or spillage if safe to do so. Contain with inert material.

Methods for Cleaning Up

Sweep up and shovel into suitable containers for disposal. 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. When dissolving in water, add product slowly to surface of water with constant stirring. Avoid violent spattering. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

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

Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store or mix with strong oxidants.

Incompatible Materials

Acids, Oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	TWA: 1,000 ppm	TWA: 1,000 ppm TWA: 1,900 mg/m ³	TWA: 1,000 ppm TWA: 1,900 mg/m ³

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**

Splash goggles or safety glasses.

Skin and Body Protection

Wear rubber or neoprene gloves. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection

Nuisance dust mask 3M type 8710 or equivalent in case of inadequate ventilation.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on Basic Physical and Chemical Properties****Physical State**

Solid

Appearance

Film-wrapped tablet

Color

Light brown

Odor

Odorless

Odor Threshold

Not determined

Property**Values****Remarks • Method**

pH

Not available

Melting Point/Freezing Point

Not available

Boiling Point/Boiling Range

Not determined

Flash Point

None

Evaporation Rate

Not determined

Flammability (Solid, Gas)

Not determined

Upper Flammability Limits

Not available

Lower Flammability Limit

Not available

Vapor Pressure

Not available

Vapor Density

Not available

Specific Gravity

.0970

(1=Water)

Water Solubility

73 – 85%

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. Acid, flammable liquids, organic halogenated compounds and, contact with nitro compounds, may form shock sensitive salts.

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

Contact with incompatible materials.

Incompatible Materials

Acids, Oxidizing materials.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure****Product Information****Eye Contact**

Causes severe eye damage.

Skin Contact

Causes severe skin burns.

Inhalation

May cause irritation to the mucous membranes and upper respiratory tract.

Ingestion

May cause burns to mouth and gastrointestinal corrosion.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol 64-17-5	= 7,060 mg/kg (Rat)	-	= 124.7 mg/L(Rat) 4 h
Alkyl(60%C14,30%C16,5%C12, 5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	= 240 mg/kg (Rat)	-	-

Information on Physical, Chemical and Toxicological Effects**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**

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol 64-17-5	-	= 12.0 – 16.0: 96 h Oncorhynchus mykiss mg/L LC50 static = 13,400 – 15,100: 96 h Pimephales promelas mg/L LC50 flow-through	= 34,634: 30 min Photobacterium phosphoreum mg/L EC50	= 9,268 – 14,221: 48 h Daphnia magna mg/L LC50
Alkyl(60%C14,30%C16,5 %C12,5%C18)Dimethyl Benzyl Ammonium Chloride 68391-01-5	-	= 0.223 – 0.46: 96 h Zebra Fish mg/L LC50 Static = 0.823 – 1.61: 96 h Oncorhynchus mykiss mg/L LC50 Static	-	-

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

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.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

15. REGULATORY INFORMATION

International Inventories

Not Determined

Legend:*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL - 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****SARA 311/312 Hazard Categories**

Acute health hazard

Yes

SARA 313

Not determined

CWA (Clean Water Act)**US State Regulations****U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards**

2

Flammability

0

Instability

1

Special Hazards

Not determined

HMIS**Health Hazards**

2

Flammability

0

Physical Hazards

1

Personal Protection

Not determined

Revision Date

27-May-2015

Revision Note

New format

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