

SAFETY DATA SHEET

Revision Date 26-March-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Foremost 585 Solvent Cleaner

UN/ID No UN1710 Product Code 585

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

Acute toxicity - Inhalation (Vapors)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1

Signal Word DANGER

Hazard Statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Suspected of causing genetic defects
May cause cancer
May cause respiratory irritation
May cause respiratory irritation

May cause respiratory irritation. May cause drowsiness or dizziness

May be fatal if swallowed and enters airways



Appearance Water white liquid Physical State Liquid Odor Chlorinated

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Get medical attention if irritation occurs

IF ON SKIN: Wash with plenty of soap and water

If skin irritation persists: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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-%
Trichloroethylene	79-01-6	Proprietary
Tetrachloroethylene	127-18-4	Proprietary

Product contains a proprietary mixture of ingredients.

4. FIRST AID MEASURES

First Aid Measures

General Advice If exposed or concerned: Get medical advice/attention. Provide this SDS to medical

personnel for treatment.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation occurs.

Skin Contact Flush with water while removing contaminated clothing and shoes before reuse. If irritation

persists, get medical attention.

Inhalation Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial

respiration if not breathing. If symptoms persist, call a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Seek medical attention immediately.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Liquid in eyes can cause pain and irritation. Corneal injury likely. May cause skin and eye

irritation. Ingestion may result in irritation of mouth and gastrointestinal tract. Vomiting may cause chemical pneumonia. Overexposure by inhalation can cause irritation of the respiratory tract and adverse effects on the central nervous system. High concentrations or

prolonged exposure can cause unconsciousness and death.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Alcoholism, acute and chronic kidney or liver disease, rhythmic disorders of the heart,

neuritis and other disorders of the nervous system. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical

pneumonia.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, carbon dioxide or dry chemical extinguisher, or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Vapor concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame, or high intensity heat source.

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. Avoid contact

with skin and eyes and inhalation of vapors.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb liquid with sawdust, sand or

industrial absorbent.

Methods for Cleaning Up 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. Obtain special

instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wear eye/face protection. Avoid contact with skin, eyes or clothing. Avoid breathing vapors. Avoid breathing mists.

Use only in well-ventilated areas.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep in

properly labeled containers. Store locked up.

Incompatible MaterialsCaustic soda, caustic potash, liquid oxygen or other oxidizing materials, alkali metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trichloroethylene	STEL: 25 ppm	TWA: 100 ppm	IDLH: 1000 ppm
79-01-6	TWA: 10 ppm	(vacated) TWA: 50 ppm	
		(vacated) TWA: 270 mg/m ³	
		(vacated) STEL: 200 ppm	
		(vacated) STEL: 1080 mg/m ³	
		Ceiling: 200 ppm	
Tetrachloroethylene	STEL: 100 ppm	TWA: 100 ppm	IDLH: 150 ppm
127-18-4	TWA: 25 ppm	(vacated) TWA: 25 ppm	
		(vacated) TWA: 170 mg/m ³	
		Ceiling: 200 ppm	

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 impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact. Wear protective Neoprene™ gloves, Rubber

gloves.

Respiratory ProtectionUse self-contained breathing apparatus if there is a heavy vapor about 300 ppm.

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

use and wash contaminated clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Liquid

AppearanceWater white liquidOdorChlorinatedColorColorlessOdor ThresholdNot determined

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

pH Not determined
Melting Point/Freezing Point Not determined
Boiling Point/Boiling Range 86.66 °C / 188 °F

Flash Point Not determined

Evaporation Rate 0.28

Flammability (Solid, Gas)
Upper Flammability Limits
Not applicable
Lower Flammability Limit
Not determined
Vapor Pressure
Vapor Density
Not established

Specific Gravity 1.465 (1=Water)

Water Solubility Insoluble in water **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

Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials

Caustic soda, caustic potash, liquid oxygen or other oxidizing materials, alkali metals.

Hazardous Decomposition Products

Hydrogen chloride, and traces of chlorine or phosgene gases.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Causes skin irritation.

Inhalation Harmful if inhaled.

Ingestion May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloroethylene	= 4290 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 8000 ppm (Rat) 4 h = 26300
79-01-6			ppm(Rat)1 h
Tetrachloroethylene	= 2629 mg/kg (Rat)	-	= 4000 ppm (Rat) 4 h
127-18-4			

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

Germ Cell Mutagenicity Suspected of causing genetic defects.

Carcinogenicity May cause cancer; The table below indicates whether each agency has listed any

ingredient as a carcinogen. However, the product as a whole has not been tested. Large

doses caused malignant tumors in mice.

Chemical Name	ACGIH	IARC	NTP	OSHA
Trichloroethylene 79-01-6	A2	Group 1	Reasonably Anticipated	Х
Tetrachloroethylene 127-18-4	A3	Group 2A	Reasonably Anticipated	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

STOT - Single Exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Chronic Toxicity Prolonged exposure above the OSHA permissible limits may result in liver and/or kidney

damage.

Aspiration Hazard May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Trichloroethylene 79-01-6	450: 96 h Desmodesmus subspicatus mg/L EC50 175: 96 h Pseudokirchneriella subcapitata mg/L EC50	31.4 - 71.8: 96 h Pimephales promelas mg/L LC50 flow- through 39 - 54: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 0.81 mg/L 24 h EC50 = 115 mg/L 10 min EC50 = 190 mg/L 15 min EC50 = 235 mg/L 24 h EC50 = 410 mg/L 24 h EC50 = 975 mg/L 5 min	2.2: 48 h Daphnia magna mg/L EC50
Tetrachloroethylene 127-18-4	500: 96 h Pseudokirchneriella subcapitata mg/L EC50	12.4 - 14.4: 96 h Pimephales promelas mg/L LC50 flow-through 8.6 - 13.5: 96 h Pimephales promelas mg/L LC50 static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 4.73 - 5.27: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	EC50 = 112 mg/L 24 h EC50 = 120.0 mg/L 30 min	6.1 - 9.0: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Trichloroethylene 79-01-6	2.29
Tetrachloroethylene 127-18-4	2.53 - 2.88

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of WastesDisposal 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
Trichloroethylene	U228	Included in waste streams:	0.5 mg/L regulatory level	U228
79-01-6		F001, F002, F024, F025,		
		F039, K018, K019, K020		
Tetrachloroethylene	U210	Included in waste streams:	0.7 mg/L regulatory level	U210
127-18-4		F001, F002, F024, F025,		
		F039, K016, K019, K020,		
		K073, K116, K150, K151		

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Trichloroethylene	Category I - Volatiles		Toxic waste	
79-01-6			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free radical	
			catalyzed processes. These	
			chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

Tetrachloroethylene	Category I - Volatiles	Toxic waste
127-18-4		waste number F025
		Waste description:
		Condensed light ends, spent
		filters and filter aids, and
		spent desiccant wastes from
		the production of certain
		chlorinated aliphatic
		hydrocarbons, by free radical
		catalyzed processes. These
		chlorinated aliphatic
		hydrocarbons are those
		having carbon chain lengths
		ranging from one to and
		including five, with varying
		amounts and positions of
		chlorine substitution.

Chemical Name	California Hazardous Waste Status
Trichloroethylene 79-01-6	Тохіс
Tetrachloroethylene 127-18-4	Toxic

14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

DOT

UN/ID No UN1710

Proper Shipping Name Trichloroethylene Solution

Hazard Class 6.1 Packing Group III

<u>IATA</u>

UN/ID No UN1710

Proper Shipping Name Trichloroethylene Solution

Hazard Class 6.1 Packing Group III

IMDG

UN/ID No UN1710

Proper Shipping Name Trichloroethylene Solution

Hazard Class 6.1
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)
Trichloroethylene	100 lb 1 lb		RQ 100 lb final RQ
79-01-6			RQ 45.4 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ
Tetrachloroethylene	100 lb 1 lb		RQ 100 lb final RQ
127-18-4			RQ 45.4 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Trichloroethylene	79-01-6	Proprietary	0.1
Tetrachloroethylene	127-18-4	Proprietary	0.1

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trichloroethylene 79-01-6	100 lb	X	X	Х
Tetrachloroethylene 127-18-4		X	X	

US State Regulations

<u>California Proposition 65</u>
This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Trichloroethylene 79-01-6	Carcinogen	
Tetrachloroethylene 127-18-4	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trichloroethylene 79-01-6	X	X	X
Tetrachloroethylene 127-18-4	Х	X	X

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards310Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection310Not 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
