



# SAFETY DATA SHEET

Revision Date 21-Feb-2023

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** F-2216 Orange Cleaner  
NA1993

**UN/ID No**  
**Product Code** F-2216

### 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 2
Aspiration toxicity	Category 1
Flammable liquids	Category 3

### Signal Word

**DANGER**

### Hazard Statements

Causes skin irritation  
May be fatal if swallowed and enters airways  
Flammable liquid and vapor  
Very toxic to aquatic life with long lasting effects



**Appearance** Yellow Liquid

**Physical State** Liquid

**Odor** Citrus

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
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**

If skin irritation occurs: 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
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  
May be harmful in contact with skin

**Other Hazards**

Very toxic to aquatic life with long lasting effects  
Very toxic to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
d-Limonene	5989-27-5	Proprietary
Odorless Mineral Spirits	68551-17-7	Proprietary

**4. FIRST AID MEASURES****First Aid Measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical advice/attention.
<b>Skin Contact</b>	Wash affected areas with copious amount of soap and water. If there is dryness and skin irritation, use a skin cream or Vaseline on skin. If irritation persists, see physician.
<b>Inhalation</b>	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**

Do not induce vomiting unless directed by medical personnel. If vomiting occurs, lean patient forward to maintain an open airway & prevent aspiration. Get immediate medical attention.

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

May cause skin and eye irritation. Direct contact with eyes may cause temporary irritation. May cause nausea, vomiting, stomach ache, and diarrhea. May cause respiratory irritation.

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

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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Water.

**Specific Hazards Arising from the Chemical**

Closed containers may explode due to buildup of pressure when exposed to extreme heat.

**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. Water may be used to cool closed containers to prevent pressure buildups and possible ignition or explosion when exposed to extreme heat.

**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. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

**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. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Keep container closed when not in use.

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

<b>Storage Conditions</b>	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.
<b>Incompatible Materials</b>	Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** The following information is given as general guidance

### Appropriate Engineering Controls

**Engineering Controls** Good general mechanical ventilation. Local exhaust recommended.

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

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

**Skin and Body Protection** Wear rubber or neoprene gloves, Rubber apron.

**Respiratory Protection** For normal use, none necessary.

**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

<b>Physical State</b>	Liquid	<b>Odor</b>	Citrus
<b>Appearance</b>	Yellow Liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Yellow		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	Not determined		
Melting Point/Freezing Point	Not applicable		
Boiling Point/Boiling Range	176 °C / 348.8 °F		
Flash Point	43.33-46.11 °C / 110-115 °F	Tag Closed Cup	
Evaporation Rate	Not applicable		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not established		
Lower Flammability Limit	Not established		
Vapor Pressure	Not established		
Vapor Density	Not established		
Specific Gravity	0.771	(1=Water)	
Water Solubility	Emulsifier		
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**

Heat, flames and sparks.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure****Product Information****Eye Contact**

Direct contact with eyes may cause temporary irritation.

**Skin Contact**

Causes skin irritation. May be harmful in contact with skin.

**Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

May be harmful if swallowed. Potential for aspiration if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
d-Limonene 5989-27-5	= 4400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-

**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**

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
d-Limonene 5989-27-5		Group 3		X

*IARC (International Agency for Research on Cancer)*

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

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

**Aspiration Hazard**

May be fatal if swallowed and enters airways.

**Numerical Measures of Toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
d-Limonene 5989-27-5		0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50		

### 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.

Chemical Name	California Hazardous Waste Status
d-Limonene 5989-27-5	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	NA1993
Proper Shipping Name	Combustible liquid, n.o.s. (petroleum distillates)
Hazard Class	Combustible liquid
Packing Group	III

### IATA

UN/ID No	UN1993
Proper Shipping Name	Combustible liquid, n.o.s. (petroleum distillates)
Hazard Class	3
Packing Group	III

### IMDG

UN/ID No	UN1993
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<b>Proper Shipping Name</b>	Combustible liquid, n.o.s. (petroleum distillates)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III

## 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 313**

Not determined

### US State Regulations

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

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>
Odorless Mineral Spirits 68551-17-7	X	X

## 16. OTHER INFORMATION

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	1	2	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	2	0	Not determined

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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