



SAFETY DATA SHEET

Revision Date 8-Sept-2017

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name F-2448 Tergitol NP 9

UN/ID No UN3262
Product Code F-2448

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Multi-purpose surfactant

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- Oral	Category 4
Acute toxicity- Inhalation	Category 4
Serious Eye Damage/Eye Irritation	Category 1

Signal Word

DANGER

Hazard Statements

Harmful if swallowed or inhaled. Causes serious eye damage.



Appearance Clear colorless liquid

Physical State Liquid

Odor Detergent

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash skin thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear eye protection/ face protection.

Precautionary Statements - Response

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 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 you feel unwell.
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed. Slipping hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
4-Nonylphenol branched, ethoxylated	127087-87-0	Proprietary
Poly(ethylene oxide)	25322-68-3	Proprietary
Dinonylphenyl polyoxyethylene	9014-93-1	Proprietary

Product contains a proprietary mixture of ingredients.

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

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection.) If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Eye Contact

Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation persists, seek medical attention.

Inhalation

Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protections (pocket mask, etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to medical facility.

Ingestion

If swallowed, seek medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable Extinguishing Media Do not use direct water stream. May spread fire.

Specific Hazards Arising from the Chemical

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Protective Equipment and Precautions for Firefighters

Keep people away. Isolate fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves).

6. ACCIDENTAL RELEASE MEASURES

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

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep upwind of spill. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to section 8, Exposure Controls and Personal Protection. Refer to section 7, Handling for additional precautionary measures.

Environmental Precautions

Prevent from entering soil, ditches, sewers, waterways, and/or groundwater. See Section 12, Ecological Information.

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

Contain spilled material if possible. Absorb with materials such as sand or dirt.

Methods for Cleaning Up

Sweep up absorbed material and shovel into suitable containers for disposal. For waste disposal, see section 13 of the SDS. Do not use water for cleanup.

7. HANDLING AND STORAGE

Precautions for Safe Handling**Advice on Safe Handling**

Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Do not swallow. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Spills of these organic materials on hot fibrous insulations may lead to lowering of the auto-ignition temperatures possibly resulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.
Incompatible Materials	Acids.

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

Chemical Name	Regulation	Type of Listing	Value/Notation
Poly(ethylene oxide) 25322-68-3	US WEEL	TWA aerosol	10 mg/m ³

Appropriate Engineering Controls

Engineering Controls	Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.
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Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Splash goggles or safety glasses.
Skin and Body Protection	Wear protective Neoprene™ gloves, Rubber gloves. Wear clean, body-covering clothing.
Respiratory Protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

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	Liquid	Odor	Detergent
Appearance	Slightly hazy	Odor Threshold	Not determined
Color	Colorless		
Property	Values	Remarks • Method	
pH	Not determined		
Melting Point/Freezing Point	3.8 °C / 38.8 °F		
Boiling Point/Boiling Range	> 250 °C / 482 °F	Decomposes before boiling	
Flash Point	Closed cup 247 °C / 477 °F ASTM D 93		
Evaporation Rate	Same as water		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	< 0.01 mmHg at 20 °C / 68 °F		
Vapor Density	>1	(1=Air)	
Specific Gravity	1.057 at 20 °C / 68 °F	(1=Water)	

Water Solubility	Soluble in water, but some compositions may form gels
Solubility in Other Solvents	Not determined
Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	237 cSt at 25 °C / 77 °F
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

Exposure to elevated temperatures can cause product to decompose.

Incompatible Materials

Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products

Decomposition products depend on temperature, air supply and the presence of other materials.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact	May cause severe eye irritation. May cause severe corneal injury.
Skin Contact	Prolonged contact may cause slight skin irritation with local redness.
Inhalation	Prolonged excessive exposure to mist may cause serious adverse effects, even death. Vapor may cause irritation of the upper respiratory tract (nose and throat).
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Poly(ethylene oxide) 25322-68-3	= 960-3,980 mg/kg (Rat)	> 2,000-2,991 mg/kg (Rabbit)	= 1.15 mg/l 4 hours, dust/mist (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 is not listed as a carcinogen by OSHA.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Poly(ethylene oxide) 25322-68-3		LC50 - Pimephales promelas (fathead minnow) - 3.8 - 6.2 mg/l - 96 h	IC50 - Bacteria - > 1,000 mg/l - 16 h	LC50 - Daphnia magna (Water flea) - 9.3 - 21.4 mg/l - 48 h

Persistence and Degradability

For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. 10-day

Window: Not applicable

Biodegradation: < 60 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Theoretical Oxygen Demand: 2.15 - 2.25 mg/mg

Chemical Oxygen Demand: 2.09 - 2.25 mg/mg

Bioaccumulation

For this family of materials:

Partition coefficient: n-octanol/water(log Pow): 2.1 - 3.4 Calculated.

Bioconcentration factor (BCF): 5.9 - 48 Fish Estimated.

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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

UN/ID No

UN3082

Proper Shipping Name

Environmentally hazardous substance, liquid, n.o.s. (Contains nonylphenol polyethylene glycol ether)

Hazard Class

9

Packing Group

III

IATA

UN/ID No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Contains nonylphenol polyethylene glycol ether)
Hazard Class	9
Packing Group	III

IMDG

UN/ID No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Contains nonylphenol polyethylene glycol ether)
Hazard Class	9
Packing Group	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****CERCLA**

None.

SARA 313

None.

CWA (Clean Water Act)

None.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
4-Nonylphenol branched, ethoxylated 127087-87-0	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

2

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Not determined

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

2

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Not determined

Revision Date

8-Sept-2017

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