SAFETY DATA SHEET: NONYL PHENOL 9

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1. IDENTIFICATION

COMMON NAME:
TERGITOL NP-9, SUFACTANT

SYNONYM:
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-branched

CHEMICAL NAME:
NONYL PHENYL POLYETHYLENE GLYCOL ETHER

2. HAZARDS IDENTIFICATION

Potential Acute Health Effects:
Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

3. COMPOSITION

NAME	CAS - NO	% BY WEIGHT
1) Poly (oxy-1,2-Ethanediyl), alpha-(4-nonyphenyl)-omega-hydroxy, branched	127087-87-0	>97
2) Polyethylene Glycol	25322-68-3	<3
3) Dinonylphenyl Polyoxyethylene	9014-93-1	<2

Toxicological Data on Ingredients

Tergitol NP-9, Surfactant:

ORAL (LD50): Acute: 960-3980 mg/kg [Rat].
DERMAL (LD50): Acute: 2000-2991 mg/kg [Rabbit].

4. FIRST AID MEASURES

Eye Contact Skin Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact
Not available

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation
Not available

Ingestion
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion
Not available

5. FIRE FIGHTING MEASURES

Flammability of the Product
May be combustible at high temperature

Auto-Ignition Temperature
not available

Flash Points
CLOSED CUP: 247°C (476.6°F). (Pensky-Martens.) OPE N CUP: 282°C (539.6°F) (Cleveland)

Flammable Limits
Not available

Products of Combustion
not available

Fire Hazards in Presence of Various Substances
Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards
Not available

Special Remarks on Explosion Hazards
not available

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

Precautions

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. EXPOSURE CONTROLS AND PERSONAL PROECTION

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location

Personal Protection

Splash goggles. Lab coat. Gloves. Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits

Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:	Liquid
Odor:	Mild
Taste:	Not available
Color:	Colorless to light yellow
Molecular Weight	not available
pH (1% soln/water)	6 (Acidic)
Boiling Point	Decomposition temperature: >250°C (482°F)
Melting Point	Freezing point: 3.8°C (38.8°F) Pour Point: -1°C
Critical Temperature	Not available

Specific Gravity	1.042-1.062 (Water = 1)
Vapor Pressure	<0.001 kPa (@ 20°C) <0.04mmHg @ 20 C
Vapor Density	>1 (Air = 1)
Volatility	Not available
Odor Threshold	Not available
Water/Oil Distribution Coefficient	Not available
Ionicity (in water)	Non-ionic
Dispersion Properties	See solubility in water
Solubility	Soluble in cold water, hot water

10. STABILITY AND REACTIVITY

Stability	The product is stable
Instability Temperature	Not available
Conditions of Instability	Avoid prolonged excess heat which may cause product decomposition.
materials reactive	Avoid incompatible materials such as strong bases strong acids, strong oxidizing agents and with hydroxyl compounds.
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis
Corrositivity	Not available
Special Remarks on Reactivity	Normally un reactive. However, avoid strong bases at high temperatures, strong acids, strong oxidizing agents, and materials reactive with hydroxyl compounds.
Special remarks on Corrositivity	not available
Polymerization	will not occur

11. TOXICOLOGICAL INFORMATION

Routes of Entry
Absorbed through skin. Eye contact. Ingestion

Toxicity to Animals:
Acute oral toxicity (LD50): 960-3980 mg/kg [Rat].
Acute dermal toxicity (LD50): 2000-2199 mg/kg [Rabbit].

Chronic Effects on Humans
Not Available

Other Toxic Effects on Humans
Hazardous in case of eye contact (irritant).
Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals
Not available

Special Remarks on Chronic Effects on Humans

May contain trace amounts of Ethylene oxide (<0.0010%),1,4-dioxane (<0.0020%) which can cause cancer. May contain trace amounts of Ethylene oxide (<0.0010%) which may cause birth defects or other reproductive harm.
May cause adverse reproductive effects and birth defects based on animal studies.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects:
Skin: May cause mild skin irritation.
Eyes: Causes eye irritation. May cause corneal injury.
Ingestion may cause abdominal discomfort, nausea, vomiting, and diarrhea.
Inhalation: Mist may cause irritation of the upper respiratory tract (nose, throat).
Chronic Potential Health Effects:
Skin: Prolonged or widespread contact is not likely to result in absorption of potentially harmful amounts. Ingestion: Prolonged or repeated ingestion may affect the liver.

12. ECOLOGICAL INFORMATION

ECOTOXICITY
Ecotoxicity in water (LC50): 21.4 mg/l 48 hours [Daphnia]. 6.6 mg/l 96 hours [Daphnia]. 7.7 mg/l 96 hours [Fish (Fathead Minnow)]. 4.8 mg/l 96 hours [Fish (Fathead Minnow)]. 6.6 mg/l 96 hours [Fish (Fathead Minnow)].

BOD5 AND COD
Not available

Products of Biodegradation
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation
Not Available

Special Remarks on the Products of Biodegradation
Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION
Not a DOT controlled material (USA)

Identification
Not applicable

Special Provisions for Transport
Not applicable

15. REGULATORY INFORMATION

FEDERAL AND STATE REGULATIONS

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Ethylene oxide; 1,4-Dioxane
California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute:
Ethylene Oxide
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene oxide; 1,4-Dioxane
Minnesota: Polyethylene glycol

TSCA 8(b) inventory: Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-branched; Dinonylphenyl Polyoxyethylene; Polyethylene Glycol
TSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-branched

CALIFORNIA PROPOSITION 65 WARNINGS

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene oxide; 1,4-Dioxane California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

OTHER REGULATIONS

For CAS no. 127087-87-0:
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 500-045-0).
Canada: Listed on Canadian Domestic Substance List (DSL).
China: Listed on National Inventory.
Japan: Listed on National Inventory (ENCS).
Korea: Listed on National Inventory (KECI).
Philippines: Listed on National Inventory (PICCS).
Australia: Listed on AICS.

OTHER CLASSIFICATIONS

WHMIS (CANADA)	CLASS D-28. Material causing other toxic effects (TOXIC)
DSCL (EEC)	R36-Irritating to eyes S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

PROTECTIVE EQUIPMENT

GLOVES, LAB COAT, SPLASH GOGGLES

16. OTHER INFORMATION

Other Special Considerations

Major Uses: in detergents and cleaners; in paper and textile processing; in paints and coatings; in agrochemicals; in metalworking fluids; in dust control

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, CISCO , assumes no responsibility for the completeness or accuracy of the information contained herein.

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