

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: NORFOX NP-4

Description: Nonylphenol Ethoxylate (4 mole)
Product Code: 1204
Suggested Use: Surfactant
Restrictions on Use: N/A

Supplier: Norman, Fox & Co.
14970 Don Julian
City of Industry, CA 91746
Telephone: 1-323-973-4900 or 1-800-632-1777
Fax: 1-323-973-4874

Emergency Phone: CHEMTREC 1-800-424-9300
International 1-703-527-3887

2. HAZARDS IDENTIFICATION**Classification**

GHS Classification: Skin Irritation (Category 2)
Serious Eye Irritation (Category 2A)
Acute Aquatic Toxicity (Category 2)
Chronic Aquatic Toxicity (Category 2)

GHS Label Elements

Pictogram:



Signal Word:

Warning

Hazard Statements:

H315: Causes skin irritation
H319: Causes serious eye irritation
H401: Toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements:

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352: IF ON SKIN: was with plenty of soap and water.
P303+P361+P353: IF ON SKIN OR HAIR: Remove all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313: Get medical advice/attention.
P273: Avoid release into the environment.
P501: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

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HMIS Classification:	Health Hazard:	1
	Flammability:	1
	Physical Hazards:	0
NFPA Rating:	Health Hazard:	1
	Fire:	1
	Reactivity Hazard:	0

Potential Health Effects

Inhalation:	May be harmful if inhaled. Avoid breathing vapors of heated liquid.
Skin:	Causes skin irritation.
Eyes:	Causes serious eye irritation.
Ingestion:	Irritating to the mouth, throat, and stomach. Do not ingest.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Nonylphenol, Ethoxylated	127087-87-0	60-100%
Synonyms:	NP-4	

4. FIRST AID MEASURES

If Inhaled:	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced.
Skin Contact:	Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.
Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. If there is any discomfort, consult a physician.
If Ingested:	Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability Overview:	Considered a low flammability risk.
Flash Point:	182.22°C (360°F)
Extinguishing Media:	Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor extinguishing media to surrounding fire.
Special Protective Equipment for Firefighters:	Wear a self-contained breathing apparatus (SCBA) for fighting large fires.
Hazardous Combustion Products:	Hazardous decomposition products under fire conditions: Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always
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ensure adequate ventilation. No action should be taken involving any personal risk or without suitable training. Evacuate unnecessary and unprotected personnel to safe areas away from the spill.

Environmental Precautions: If safe to do so, avoid the dispersal of spilled material and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution. This material is known as a water pollutant. It may be harmful to the environment if released in large quantities. Collect spillage.

Containment and Clean Up: If safe to do so, stop the leak or spill. Move containers away from the spill area. Prevent entry into sewers, water courses, basements, and confined areas. Wash spillage into an effluent treatment plant or proceed as follows. Contain and collect spilled material with non-combustible, absorbent material and place in a container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same physical hazards as the spilled product. If assistance is needed call CHEMTREC or emergency services.

7. HANDLING AND STORAGE

Safe Handling: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Exposure Limit	Basis
Nonylphenol, Ethoxylated	127087-87-0	N/A	ACGIH Threshold Value (TLV)
		N/A	OSHA Table Z-1: Limits for Air Contaminants
		N/A	NIOSH Recommended Exposure Limits

Personal Protective Equipment

Eye Protection: Tightly fitting safety goggles or safety glasses should be sufficient. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur.

Hand Protection: Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use.

Skin Protection: Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in the areas where skin contact can occur.

Respiratory Protection: Always ensure adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. For high concentrations, unknown concentrations, and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

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General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
 Color: Clear to Pale Color
 Odor: Slight
 Odor Threshold: N/A
 pH: 6.5-7.5 (solution)
 Melting/Freezing Point: -6°C (21.2°F)
 Boiling Point: N/A
 Flash Point: 182.22°C (360°F)
 Evaporation Rate: N/A
 Flammability (solid, gas): N/A
 Flammability/Explosion Limits: N/A
 Vapor Pressure @ 20°C: <0.13kPa (<1mm Hg)
 Vapor Density: >1
 Specific Gravity: 1.03
 Density: 8.58 lbs/gal (1.02 g/cm³)
 Solubility in Water: N/A
 Partition Coefficient: N/A
 Autoignition Temperature: N/A
 Decomposition Temperature: N/A
 Viscosity: 108 cPs

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.
 Conditions and Materials to Avoid: No specific data available.
 Hazardous Decomposition Products: Hazardous decomposition products under fire conditions: Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	CAS Number	Test	Toxicity
Nonylphenol, Ethoxylated	127087-87-0	Oral LD50 (Rat)	4290 mg/kg
		Dermal LD50 (Rabbit)	>2500 mg/kg
		Inhalation LC50 (Rat)	>21.3 mg/l

Potential Health Effects

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Inhalation: May be harmful if inhaled. Avoid breathing vapors of heated liquid.
 Skin: Causes skin irritation.
 Eyes: Causes serious eye irritation.
 Ingestion: Irritating to the mouth, throat, and stomach. Do not ingest.

Signs and Symptoms of Exposure: Irritation. Redness. Watering Eyes.

Chronic Effects of Long-term Exposure: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
Nonylphenol, Ethoxylated	127087-87-0	Fish	96 hr LC50 = 1.3 mg/L

Ecological Effects

Persistence and Degradability: 58% after 34 days, 50-80% after 42 days.

Bioaccumulation Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Contaminated Packaging: Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Contaminated packaging should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region.

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Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Nonylphenol, Ethoxylated).
UN Number: UN3082
Hazard Class: 9
Packing Group: PGIII

Reportable Quantity (RQ): N/A

Marine Pollutant: Yes

Note: DOT hazard class applies to bulk packaging only.

15. REGULATORY INFORMATION**US Federal**

SARA 302 Components: None Listed
SARA 311/312 Hazards: Acute Health Hazard
SARA 313 Components: Glycol Ethers (Fraction of product (35%) meets EPA definition)

TSCA Inventory: All components listed or exempted.

European Union

EC Inventory: All components listed or exempted.

State Regulations

CA Prop 65: This product contains less than 0.01% of Ethylene Oxide (CAS 75-21-8) which is known to The State of California to cause cancer and reproductive harm.

16. OTHER INFORMATION

SDS Version: 1.0
Revision Date: 04/28/2015
Supersedes: New to GHS

The information contained in this document was carefully compiled and is believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Norman, Fox & Co. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents.

For product information or to re-order, call Norman, Fox & Co. at 323-973-4900.