CHEMICALSTORE.COM

Chemical Store Inc.
1059 Main Ave., Clifton, NJ 07011
Tel: +1 (973) 405-6248

SAFETY DATA SHEET

Nonylphenol Ethoxylated — NP-10

Product code NP10 | CAS 127087-87-0

1. IDENTIFICATION

Product identifier	Nonylphenol Ethoxylated NP-10
Product code	NP10
CAS	127087-87-0
Product type	Nonionic surfactant; branched nonylphenol ethoxylate, nominal 10 EO
Manufacturer	The Dow Chemical Company (Subject to change)
Distributor	Chemical Store Inc., 1059 Main Avenue, Clifton, NJ 07011, USA
Distributor contact	ChemicalStore.com | info@ChemicalStore.com | (973) 405-6248
Emergency contact	+1 (973) 420-4972
Manufacturer identified use	Multi-purpose surfactant.
Possible applications	Cleaners and detergents; paper and textile processing; laundry; paints and coatings; dust control; agrochemical formulations; metalworking fluids.
Use Restrictions	Not for food or drug related applications.

2. HAZARDS IDENTIFICATION

OSHA HCS classification	Acute toxicity (oral), Category 4; Acute toxicity (inhalation), Category 4; Serious eye damage, Category 1.
Signal word	**DANGER**
Pictograms	GHS05 (corrosion); GHS07 (exclamation mark). 
Hazard statements	H302+H332 Harmful if swallowed or if inhaled. H318 Causes serious eye damage.
Prevention	P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear eye/face protection.
Response	P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if easy; continue rinsing; immediately call a POISON CENTER/doctor.
Disposal	P501 Dispose of contents/container to an approved waste disposal plant.
Other hazards	Corrosive to the respiratory tract. Slipping hazard. Aquatic toxicity is documented in Section 12.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
4-Nonylphenol branched, ethoxylated	CAS 127087-87-0	97 – 100 %
Poly(ethylene oxide)	CAS 25322-68-3	0.1 – 3.0 %
Dinonylphenyl polyoxyethylene	CAS 9014-93-1	0.1 – 2.0 %

Composition note	Manufacturer-reported concentration ranges can overlap; do not add upper bounds as though they were a single fixed formulation. Dow describes this product as a substance.

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4. FIRST AID MEASURES

Inhalation	Move person to fresh air; keep comfortable for breathing. If not breathing, provide artificial respiration with rescuer protection. Qualified personnel may administer oxygen. Contact physician or medical facility.
Skin	Wash with plenty of water.
Eyes	Immediately flush with water. Remove contact lenses after the first 5 minutes if present; continue flushing for at least 15 minutes. Obtain immediate medical attention, preferably ophthalmology.
Ingestion	Seek medical attention. Do not induce vomiting unless directed by medical personnel.
Symptoms / effects	Harmful if swallowed or inhaled. Causes serious eye damage.
Physician	Maintain ventilation and oxygenation. No specific antidote; treat symptoms and clinical condition.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog/fine spray; dry chemical; carbon dioxide; foam. Alcohol-resistant foam preferred.
Unsuitable media	Direct water stream may spread fire.
Combustion hazards	Smoke may contain toxic/irritating products, including carbon monoxide and carbon dioxide. Direct water on hot liquid may cause violent steam generation.
Protection	Isolate fire. Firefighters should wear positive-pressure SCBA and full protective clothing; fight from protected location if needed.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Isolate spill; restrict access; use Section 8 PPE. Product presents slipping hazard.
Environment	Prevent entry into soil, ditches, sewers, waterways and groundwater.
Containment / cleanup	Contain if possible. Absorb with sand or dirt; do not use water for cleanup. Collect in suitable labeled containers. Follow disposal rules.

7. HANDLING AND STORAGE

Handling	Avoid eye contact and swallowing. Wash thoroughly after handling. Avoid inhalation of mist/vapors; provide adequate ventilation.
Storage	No special storage requirements; keep containers properly closed and protect from excessive heat. Shelf life applies to unopened containers under moderate temperatures.
Manufacturer shelf life	24 months for unopened containers under moderate temperature conditions; verify manufacturing date and storage history for your stock.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guideline	Poly(ethylene oxide), US WEEL TWA aerosol: 10 mg/m³. This is not an OSHA PEL.
Engineering	Ventilation sufficient to control airborne exposure; local exhaust may be needed.
Eye / face	Chemical goggles; additional splash face protection as appropriate.
Hands	Chemical-resistant gloves for prolonged/repeated contact; Examples: butyl rubber, chlorinated polyethylene, polyethylene, EVAL laminate. Choose based on breakthrough time and actual conditions.
Body	Clean, body-covering protective clothing.
Respiratory	Approved respirator when ventilation insufficient; Organic-vapor cartridge with particulate prefilter as an effective air-purifying option for applicable operations. Emergency conditions may require positive-pressure SCBA.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state / color	Yellow liquid
Odor	Mild
Odor threshold	No test data available
pH	No test data available
Freezing point	6.1 °C (calculated)
Boiling point	>250 °C (calculated); decomposes before boiling
Flash point	197 °C, closed cup, ASTM D93

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Vapor pressure	<0.01 mmHg at 20 °C (calculated)
Relative vapor density	>1 (calculated)
Relative density	1.0622 at 20 °C/20 °C (calculated)
Water solubility	Partly soluble
Log Pow	2.1–3.4 (calculated)
Kinematic viscosity	237 cSt at 25 °C (calculated)
Molecular weight	682 g/mol (calculated)
Flammability	Not expected to be a static-accumulating flammable liquid
Other properties	Evaporation rate, explosion limits, autoignition, decomposition temperature, explosive/oxidizing properties: no test data available.
Data qualification	Above data are typical values, not specifications. Some are calculated.

10. STABILITY AND REACTIVITY

Reactivity	No data available.
Stability	Thermally stable at typical use temperatures.
Hazardous reactions	Polymerization will not occur.
Avoid	Elevated temperatures may cause decomposition.
Incompatible materials	Strong acids, strong bases, strong oxidizers.
Decomposition	Depends on temperature, air supply and other materials; fire may generate CO and CO_2 .

11. TOXICOLOGICAL INFORMATION

Routes	Ingestion, inhalation, skin contact, eye contact.
Oral toxicity	Rat LD50: 960–3,980 mg/kg (typical family-of-materials data).
Dermal toxicity	Rabbit LD50: 2,000–2,991 mg/kg (typical family-of-materials data).
Inhalation toxicity	Rat LC50, 4-hour dust/mist: 1.15 mg/L (typical family-of-materials data). Excessive mist exposure may cause severe adverse effects.
Skin	Not classified for skin irritation; prolonged contact may cause slight redness.
Eyes	Serious eye damage, possible corneal injury.
Sensitization	Not classified for skin or respiratory sensitization based on available information.
Single-exposure STOT	Possible corrosive effects to respiratory tract.
Repeated exposure	Not classified; animal family data reported kidney and liver effects.
Carcinogenicity / mutagenicity	Not classified based on available information.
Reproductive / developmental	Not classified.
Aspiration	Not classified; not likely based on physical properties.

12. ECOLOGICAL INFORMATION

Acute fish toxicity	Fathead minnow LC50, 96 h: 0.218 mg/L (family data).
Acute invertebrate toxicity	Ceriodaphnia dubia EC50, 48 h: 0.328 mg/L (family data).
Chronic invertebrate toxicity	Mysidopsis bahia NOEC, 21 d: 0.0077 mg/L (family data).
Biodegradation	Not readily biodegradable under stringent OECD criteria; <60% in 28 days, OECD 301B or equivalent.
Oxygen demand	Theoretical 2.15–2.25 mg/mg; chemical 2.09–2.25 mg/mg.
Bioaccumulation	Calculated log Pow 2.1–3.4; estimated fish BCF 5.9–48 for similar materials.
Mobility	No relevant soil mobility data found.
Precautions	Very toxic aquatic effects observed in testing; prevent environmental discharge.

13. DISPOSAL CONSIDERATIONS

Disposal	Do not discharge to sewers, ground or water bodies. Follow all applicable federal, state and local requirements. Waste generator determines classification.
Methods	Licensed permitted incineration or other thermal destruction; wastewater treatment may be an option only where authorized and appropriate.
Packaging	Treat residue-containing containers as contaminated until properly cleaned/disposed.

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14. TRANSPORT INFORMATION

US DOT	Not regulated for transport.
IMDG (sea)	UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol polyethylene glycol ether); Class 9; Packing Group III; marine pollutant; EmS F-A, S-F.
IATA/ICAO (air)	UN3082; Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol polyethylene glycol ether); Class 9; Packing Group III.
Qualification	Transport status may vary with package size, route, jurisdiction and current regulations; shipper must verify. Do not assume DOT classification extends to air/ocean.

15. REGULATORY INFORMATION

EPCRA 311/312	Acute toxicity (any route) and serious eye damage/eye irritation.
EPCRA 313 / TRI	4-Nonylphenol branched, ethoxylated (CAS 127087-87-0) is listed as a reportable component; facility reporting depends on thresholds and activities.
TSCA	All components comply with U.S. TSCA Inventory listing requirements.
California Proposition 65	A chemical is at/below its assessed safe-harbor level and does not require listing on its SDS/label. This is a manufacturer-specific determination; do not extend to altered products.
Other	Check jurisdiction-specific environmental, agrochemical, occupational and wastewater requirements.

16. OTHER INFORMATION

Chemical Store revision	2026-11-05 | Version 2.0 — manufacturer-aligned review draft
NFPA	Health 2; Flammability 1; Instability 0.

Disclaimer

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