

Safety Data Sheet

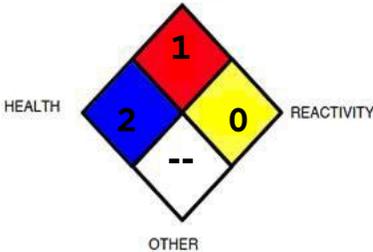
Section 1: Product & Company Identification

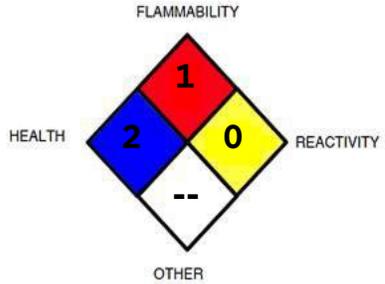
Product Name:	NP-40 (in 10% H ₂ O)
Product #:	N-2366
Synonyms:	4-Nonylphenyl-polyethylene glycol, Nonidet PTM 40
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	% Composition
NP-40 Substitute	9002-93-1	-	10%
Water	7732-18-5	231-791-2	90%

Section 3: Hazards Identification

Symbols	
HMIS Classification	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">OTHER</p>

NFPA Classification	
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Section 4: First Aid Measures

General Overview:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	Not flammable or combustible.
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Hazardous thermal (de)composition products:	No data available
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.
Flash Point:	251°C (484°F) - closed cup

Section 6: Accidental Release Measures

Personal Precautions:	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for Clean-up:	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: Handling & Storage

Storage:	Tightly closed. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 - 8°C
Handling:	Avoid inhalation of vapor or mist. Avoid contact with skin and eyes.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</p>
Skin and Body:	  <p>Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p>
Eyes:	

	 <p>Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</p> <p>Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>
Ventilation/Engineering Measures:	N/A
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties (NP-40 Substitute)

Appearance & Odor:	Liquid
Formula	$(C_2H_4O)_n C_{14}H_{22}O$
Molecular Wt.	~603
pH:	9.7
Melting Pt.	6°C (43 °F)
Boiling Pt.	> 200°C > 392°F at 1,013 hPa
Density:	1.06 g/ml at 20°C (68°F)
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	Water
Flash Point:	251°C (484°F) - closed cup
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	Stable under recommended storage conditions.
Hazardous decomposition products:	No data available

Materials to Avoid:	Strong oxidizing agent
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	AX0247000
ACUTE Toxicity:	N/A
CHRONIC Toxicity:	<p>Skin corrosion/irritation: Skin - rabbit - mild skin irritation</p> <p>Serious eye damage/eye irritation: Eyes - rabbit - severe eye irritation</p> <p>Respiratory or skin sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.</p> <p>Signs and Symptoms of Exposure: Exposure may cause nausea, headache, and/or vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p>
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

SECTION 12: Ecological Information

Ecotoxicity:	<p>Toxicity to fish→ mortality LOEC - Pimephales promelas (fathead minnow) - 2.0 mg/l - 144 h Mortality LOEC - Pimephales promelas (fathead minnow) - 1.8 mg/l - 144 h LC50 - Lepomis macrochirus (Bluegill) - 1.0-9.7 mg/l - 96 h</p> <p>Toxicity to daphnia and other aquatic invertebrates→ mortality LOEC 0 Daphnia magna (water flea) - 10.0 mg/l - 144 h EC50- Daphnia magna (water flea) - 20.0 mg/l - 144 h</p>
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	Toxicity to algae→ Growth inhibition LOEC - Pseudokirchneriella subcapitata - 16.0 mg/l - 96 h Growth inhibition LOEC - Pseudokirchneriella subcapitata - 8.0 mg/l - 96 h
Mobility:	No data available
Persistence and degradability:	Biodegradability→ Result: 86% - readily biodegradable; Method: modified Sturm test
Bioaccumulative potential:	Does not bioaccumulate
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	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:	Dispose of as unused product.

SECTION 14: Transportation Information

UN ID#:	3082
ADR / RID (LAND):	N/A
DOT regulations:	Not regulated
IMDG/IMO (SEA):	UN- number: 3082 Class: 9 Packing group: III EMS-No. F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-Nonylphenyl-polyethylene glycol) Marine pollutant: Yes
IATA/DGR (AIR):	UN-number: 3082 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (4-Nonylphenyl-polyethylene glycol)
Special Provisions:	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5L for liquids or >5 kg for solids.

SECTION 15: Regulatory Information

Health Phrases:	<p>H302 Harmful if swallowed. H316 Causes mild skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life P261 Avoid breathing dust/fumes/gas/mist/vapors/spray. P264 Wash hands thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
Risk Phrases:	R22, R37/38, R41, R50
Safety Phrases:	S23, S29, S36/37/39, S45, S56, S61
EU Regulations:	N/A
US Regulations:	<p>TSCA: Not listed California Proposition 65: No products were found New Jersey State Right to Know: Listed Pennsylvania Jersey State Right to Know: Listed</p>
U.S. Federal Regulations:	<p>SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: Irritant, Harmful by ingestion</p>
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*