

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product	ULTRANEX NP 90
Internal identification code	--
Relevant recommended uses	Industrial uses.
Company	Everchem Specialty Chemicals
Address	1400 N. Providence Rd. Suite 302 Media, PA 19063
Phone number	484-234-5030
Emergency Phone number	Call CHEMTREC Day or Night 800-424-9300 (Domestic North America)

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2. HAZARDS IDENTIFICATION

Classification	Acute toxicity - Oral, Category 4 Acute toxicity - Dermal, Category 5 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2A Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 2 (cardiovascular system) Hazardous to the aquatic environment - acute, Category 1 Hazardous to the aquatic environment - chronic, Category 1
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Label Elements

- **Hazard Pictograms**



- **Signal Word**

WARNING

- **Hazard Statements**

H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn .
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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• **Precautionary Statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash thoroughly after handling.
P260 Do not breathe gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents / container in accordance with current legislation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Brand or Generic Chemical Name	Surfactant/Ethoxylate Nonylphenol
Product Type	Substance.
Synonyms	Nonylphenol ethoxylates 9 EO; 4-nonylphenol polyethylene glycol ether branched; polyethylene glycol, mono(p-nonylphenyl) ether, branched; 4-nonylphenol, branched, ethoxylated; poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-branched.
CAS Number	127087-87-0.
Impurities which contribute to the classification of the substance	There are no impurities which contribute to the classification of the substance.
Composition Comments	Additional information CAS# 68412-54-4 (Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched).

4. FIRST-AID MEASURES

Procedure in Case of:

- **Ingestion**

Seek prompt medical attention.
Do not induce vomiting.
Vomiting should only be induced by medical personnel.
If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs.
Never give anything by mouth to an unconscious or convulsing person.
- **Inhalation**

Seek prompt medical attention.
Remove victim to fresh air.
If breathing is difficult, give oxygen.
If not breathing, give artificial respiration.
- **Skin contact**

Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower.
Seek prompt medical attention.
- **Eye contact**

Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open.
Remove contact lenses if easy to do.
Seek prompt medical attention.

Most important symptoms/effects, acute and delayed

Ingestion - In large amounts may cause abdominal discomfort, gastrointestinal irritation, nausea and diarrhea.
Inhalation - Mist or vapors produced from elevated temperatures may cause irritation of the mucous membranes and throat with coughing and difficulty breathing.
Skin - Repeated and/or prolonged contact may cause moderate irritation and contact dermatitis.
Eyes - May cause severe irritation, tearing and damage to the cornea.

Information for doctor

There is not known any specific antidote.
Direct the treatment in accordance with the symptoms and clinical conditions of the patient.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

In case of fire, use:
Water spray.
Carbon dioxide (CO2).
Dry chemical powder.
Alcohol resistant foam.

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Specific Hazards	Product is not flammable. In case of combustion it may generate carbon monoxide, besides CO ₂ .
Protective measures for fire-fighters	Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.
NFPA Rating	
• Health	3
• Flammability	1
• Instability	0
• Special	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.
Environmental Precautions	Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.
Methods and materials for containment and cleaning up	Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling	Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If occurs accidental contact, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.
Conditions for safe storage	Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use.
Incompatibilities	Avoid contact with: Strong oxidizing agents. Strong reducing agents.
Packaging Material	Recommended: Stainless steel. High density polyethylene. Low density polyethylene. Polyvinyl chloride (PVC). Coated steel with: Epoxy resin. Polyester resin reinforced with fiber glass.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters	
• TLV-TWA (ACGIH)	1,4-Dioxane: 20 ppm; 72 mg/m ³ [Skin][A3]. Ethylene oxide: 1 ppm; 1.8 mg/m ³ [A2]. Skin - Danger of cutaneous absorption. A2 - Suspected Human Carcinogen A3 - Confirmed animal carcinogen with unknown relevance to humans.
• PEL-TWA (OSHA)	1,4-Dioxane: 100 ppm; 360 mg/m ³ [Skin]. Ethylene oxide: 1 ppm. Skin - Danger of cutaneous absorption.
• TLV-STEL (ACGIH)	Not established.
• LT(NR15)	Ethylene oxide: 39 ppm; 70 mg/m ³ .

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- **Odor Threshold** Not available.
- **IDLH** 1,4-Dioxane: 500 ppm.
Ethylene oxide: 800 ppm.
- **Biological Exposure Indices (ACGIH)** Not established.

Engineering Control Measures In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster).

Individual Protection Measures

- **Eye Protection** Side shields or wide vision safety goggles.
- **Skin Protection** PVC apron.
It is recommended to adopt safety boots/shoes.
- **Hand Protection** Gloves made of:
PVC (Polyvinyl chloride).
Rubber.
- **Breathing equipment** In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus.
It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid. Viscous.
Odour and Odour threshold	Not available.
pH	5.0 - 8.0 (1%).
Melting point/Freezing point	> 20 °C.
Initial Boiling Point and Boiling Range	> 100 °C.
Flash point	> 150 °C.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density (air = 1)	Not available.
Relative density (water=1)	1.05 g/cm ³ .
Apparent density	Not applicable.
Solubility	Soluble in: Alcohol. Water. Organic solvents.
Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of use and storage.
Reactivity	No hazardous reactivity is expected.
Possibility of Hazardous Reactions	Not polymerize.

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Conditions to avoid	High temperatures, ignition sources and prolonged exposure to the air.
Incompatible materials	Avoid contact with: Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products	In case of combustion it may generate carbon monoxide, besides CO ₂ .
Considerations on the use of the product	Not applicable.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

- **Oral** LD50, rat: 1310 mg/kg.
- **Inhalation** LC50, 8h, rat: > 28 mg/m³.
- **Dermal** LD50, rabbit: 2120 mg/kg.

Skin corrosion/irritation (15 mg, 3 days, intermittent, humans).
Slightly irritating.

Serious eye damage/eye irritation Severely irritating.
(5 mg rabbits; 20 mg mice).

Respiratory or skin sensitization No significant skin sensitizing potential.

Germ cell mutagenicity Negative in the Ames assay, in vitro chromosomal aberration assay, or in vivo micronucleus assay.

Carcinogenicity There are no data on its carcinogenic potential.

Reproductive toxicity There is evidence of reduced female fertility and a decreased number of embryos.
Reproductive toxicity in rats (based on decreases in epididymal sperm density or testicular sperm head counts, increases in estrous cycle length, and decreases in ovarian weights) and developmental toxicity for rat offspring (based on accelerated vaginal opening in pups) and maternal toxicity (based on decreased terminal body weights):
NOAEL = 13 - 19 mg/kg/day.
LOAEL = 43 - 64 mg/kg/day.

Specific target organ toxicity - Single exposure Not available.

Specific target organ toxicity - Repeated exposure An increase in relative liver weight in female rats and, in the histopathological examination, fatty change in hepatic cell in male and female rats were observed at 250 mg/kg/day in 90-day oral study. Focal necrosis of heart muscle was observed in the dogs and guinea pigs.

Aspiration hazard Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Fish -
LC50, 96h, *Lepomis macrochirus*: 1.3 mg/L.
NOEC, *Oryzias latipes*: 0.0082 mg/L.
Invertebrate -
LC50, 48h, *Daphnia pulex*: 4.8 mg/L.
LC50, 48h, Mysid Shrimp: 0.11 mg/L.

Persistence and Degradability Not readily biodegradable.
MITI test - BOD: 0%; TOC: 10.3%.

Bioaccumulative Potential BCF = 0.2 - 1.4.
Bioconcentration potential in aquatic organisms is low.

Mobility in soil Koc = 6.1.
It is expected to have high mobility in soil.

Other Adverse Effects Water hazard class 2: Hazard to water.

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal

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Applicable standards

Resolution 420 / 2004 – Transport Ministry.
IMDG Code - 2012 Edition - IMO (International Maritime Organization).
Dangerous Goods by Road (ADR) – Available from January 1st, 2011 – Unece (United Nations Economic Commission for Europe).
Dangerous Goods Regulations - 56th Edition - IATA (International Air Transport Association).
U.S.A Department of Transportation – DOT – 49 CFR 172.101.

OSHA Hazard Communication Standard

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III - Sections 311 / 312 (40 CFR 370 Subparts B and C)

Immediate (Acute) Health Hazard: Yes.
Delayed (Chronic) Health Hazard: Yes.
Fire Hazard: No.
Sudden Release of Pressure Hazard: No.
Reactive Hazard: No.

SARA Title III - Section 313 (40 CFR 372.65)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

SARA Title III - Section 302 (40 CFR 355 Appendix A)

Ethylene oxide (CAS 75-21-8): max. 5 ppm. TPQ: 1000 lbs.

CERCLA (40 CFR 302.4) / SARA 304

1,4-Dioxane (CAS 123-91-1): max. 10 ppm. RQ: 100 lbs.
Ethylene oxide (CAS 75-21-8): max. 5 ppm. RQ: 10 lbs.
Reportable Quantity (RQ) of this product is 2000000 pounds based upon Ethylene oxide which yielded the lowest resultant RQ according to the following formula: CERCLA ingredient RQ/ % of that ingredient in the product.

New Jersey Hazardous Substance List

1,4-Dioxane: Substance# 0789 (Special Health Hazard Code: CA – Carcinogen; F3 – Flammable 3rd degree).
Ethylene oxide: Substance# 0882 (Special Health Hazard Code: CA – Carcinogen; MU – Mutagen; TE – Teratogen; F4 – Flammable 4th degree; R3 – Reactive 3rd degree).

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)

WARNING! This product contains a chemical known to the State of California to cause cancer.
- 1,4-Dioxane.
- Ethylene oxide.
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
- Ethylene oxide.

Pennsylvania Hazardous Substance List

1,4-Dioxane (CAS 123-91-1) and Ethylene oxide (CAS 75-21-8): Listed also as an environmental hazard and as a special hazardous substance.

Inventory Status

United States & Puerto Rico – Toxic Substances Control Act (TSCA) Inventory: Yes
Canada – Domestic Substances List (DSL): Yes
Canada – Non-Domestic Substances List (NDSL): No
Europe – European Inventory of Existing Commercial Chemical Substances (EINECS): No
Europe – European List of Notified Chemical Substances (ELINCS): No
Australia – Australian Inventory of Chemical Substances (AICS): Yes
Philippines – Philippine Inventory of Chemicals and Chemical Substances (PICCS): Yes
Japan – Inventory of Existing and New Chemical Substances (ENCS): Yes
Korea – Existing Chemicals List (ECL): Yes
China – Inventory of Existing Chemical Substances in China (IECSC): Yes
New Zealand – New Zealand Inventory: Yes
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. OTHER INFORMATION

Remarks

Not applicable.

Sources

2015 Guide to Occupational Exposure Values – ACGIH.
LOLI - ChemADVISOR's Regulatory Database.
eChemPortal - The Global Portal to Information on Chemical Substances.
European Chemicals Agency - <http://echa.europa.eu/>.
2015 TLVs and BEIs – Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices – ACGIH.

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Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists (USA).
ADR: European agreement concerning the international carriage of dangerous goods by road.
CAS: Chemical Abstracts Service (American Chemical Society - EUA).
EC50: Average concentration for 50% of maximum response.
LC: Lethal Concentration - substance concentration in the environment that leads to death after a certain period of exposure.
LC50: Lethal concentration for 50% of the test animals.
BOD: Biochemical Oxygen Demand.
LD50: Lethal Dose for 50% of the test animals.
LDLo: Lethal Dose Low - minimal amount of a chemical lethal to animals in testing.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods by Regulations by the IATA
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the ICAO.
IMDG: International Maritime Code for Dangerous Goods.
IDLH - Immediately Dangerous To Life or Health Concentrations.
Kow: Octanol/water partition coefficient.
LT (NR 15): Exposure limits of the standard number 15 - Unhealthy Operations and Activities from the Ministry of Labour and Employment of Brazil.
LOAEL: Lowest Adverse Effect Level
LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database
NLP: No Longer Polymers.
NIOSH: National Institute for Occupational Safety and Health.
NOAEL: No Observed Adverse Effect Level
NTP: National Toxicology Program.
OSHA: Occupational Safety and Health Administration (EUA).
PEL-TWA: Exposure Limit Allowed – time-weighted average.
RID: Regulations concerning the international transport of dangerous goods by rail.
TLV-STEL: Tolerance Limit - short period of time (15 minutes, maximum).
TLV-TWA: Tolerance Limit – time weighted average.
WGK: Wassergefährdungsklasse (Germany) - Water Hazard Class.

This Safety Data Sheet was authored according to our current knowledge and experience, however cannot imply guarantee of any nature. Considering the variety of factors that can affect their process or application, the information on this sheet does not exempt the processors from the responsibility of executing their own tests and experiments.