

1. IDENTIFICATION

Product Name	Nonyl Phenol Tech 10
Other Names	Ethoxylated nonylphenol; Polyethylene glycol, nonylphenyl ether
Uses	Nonionic surfactant, Emulsifier, Dispersant, Detergent
Chemical Family	No Data Available
Chemical Formula	No Data Available
Chemical Name	Nonylphenol polyethylene glycol ether
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

Globally Harmonised System

Hazard Classification	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Hazard Categories	Acute Toxicity (Oral) - Category 4 Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 1 Toxic To Reproduction - Category 2 Acute Hazard To The Aquatic Environment - Category 1

Pictograms



Signal Word Danger

Hazard Statements	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H318	Causes serious eye damage.
	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
	H400	Very toxic to aquatic life.

Precautionary Statements	Prevention	P280	Wear protective gloves/protective clothing/eye protection/face protection.	
		P201	Obtain special instructions before use.	
		P273	Avoid release to the environment.	
		P270	Do not eat, drink or smoke when using this product.	
	Response	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
		P310	Immediately call a POISON CENTER or doctor/physician.	
		P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
		P308 + P313	IF exposed or concerned: Get medical advice/ attention.	
		P391	Collect spillage.	
		P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
		P330	Rinse mouth.	
		P362	Take off contaminated clothing and wash before reuse.	
		Storage	P405	Store locked up.
		Disposal	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications	Health Hazards	6.1E	Substances that are acutely toxic –May be harmful, Aspiration hazard
		6.3B	Substances that are mildly irritating to the skin
		6.4A	Substances that are irritating to the eye
	Environmental Hazards	9.1B	Substances that are ecotoxic in the aquatic environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Nonylphenol polyethylene glycol ether	No Data Available	9016-45-9	>99 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	If swallowed: Rinse mouth. Drink water. Call a Poison Centre or doctor/physician if you feel unwell. Never give anything by mouth to an unconscious person.
Eye	Eye contact: Flush eyes with running water for at least 15 minutes, occasionally lifting eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Centre or doctor/physician.
Skin	Skin contact: Remove contaminated clothing and shoes immediately. Flush skin with running water, or wash with plenty of soap and water, for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.
Inhaled	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Obtain immediate medical care.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
Flammability Conditions	Combustible liquid. May burn but does not ignite readily.
Extinguishing Media	Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam.
Fire and Explosion Hazard	Flame might be invisible in daylight. Containers may explode when heated.
Hazardous Products of Combustion	Fire may produce irritating, toxic, and/or corrosive fumes.
Special Fire Fighting Instructions	Runoff from fire control water may pollute waterways. Avoid release to the environment.
Personal Protective Equipment	Fire-fighters should wear self-contained breathing apparatus (SCBA) and chemical splash suit.
Flash Point	>210 °C (Closed cup)
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ventilate enclosed spaces before entering. ELIMINATE all ignition sources. Do not touch or walk through spilled
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	material.
Clean Up Procedures	Collect spillage. Absorb with earth, sand or other non-combustible material and transfer to a container for disposal.
Containment	Stop leak if safe to do so. Prevent entry into waterways, drains or confined areas.
Decontamination	No information available.
Environmental Precautionary Measures	Prevent run off into drains and waterways.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Wear protective equipment (see Section 8).

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Use only in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment. Collect spillage.
Storage	Store in a cool, dry and well-ventilated area. Keep container tightly closed. Keep away from heat and sources of ignition. Avoid contact with strong acid and oxidising agents. Check regularly for leaks. Protect containers against physical damage.
Container	Keep in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Australian: No specific exposure standards are available. International: No specific exposure standards are available.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	Use only in a well-ventilated area. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	Respiratory protection: Respirator. Eye/face protection: Goggles with side shields or chemical splash goggles. Skin (hand) protection: Rubber gloves or protective gloves. Skin (body) protection: Protective working clothes and safety shoes.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Keep away from foodstuffs, beverages and smoking. Wash hands before break and at the end of work. Immediately remove all soiled and contaminated clothing. Keep work environment clean. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Liquid
Odour	No information available.
Colour	Clear
pH	5 - 7 (1% aqueous sol.)
Vapour Pressure	<0.0013 kPa (@ No Data Available)
Relative Vapour Density	>1 Air = 1
Boiling Point	>250 °C
Melting Point	No Data Available

Freezing Point	No Data Available
Solubility	Soluble
Specific Gravity	1.045 - 1.065
Flash Point	>210 °C (Closed cup)
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	Not applicable.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	Combustible liquid. May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire may produce irritating, toxic, and/or corrosive fumes.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions.
Conditions to Avoid	Avoid high temperatures and ignition sources (heat/sparks/flames).
Materials to Avoid	Avoid contact with strong acid and oxidizing agents.
Hazardous Decomposition Products	Fire may produce irritating, toxic, and/or corrosive fumes.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	No Data Available
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Acute

Ingestion	Acute Oral Toxicity: - Rat, LD50: 1,310 mg/kg bw (NICNAS)
Other	Acute Dermal Toxicity: - Rabbit, LD50: 2,000 mg/kg bw (NICNAS)
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Acute Toxicity: - Fish: <i>Lepomis macrochirus</i> (Bluegill), 96 h EC50 = 1.3 mg/L - Algae: <i>Scenedesmus opoliensis</i> (Green algae), 5 d EC50 = 37.4 mg/L (static) Chronic Toxicity: - Invertebrates: <i>Daphnia magna</i> (Water flea), 6 d NOEC = 1.0 mg/L - Algae: <i>Pseudokirchneriella subcapitata</i> (Green algae), 96 h NOEC = 8.0 mg/L
Persistence/Degradability	Not Persistent (Not P).
Mobility	Not expected to undergo long-range transport based on low volatility and biodegradability in the environment. Nonylphenol ethoxylates are readily sorbed to soil and sediment, which is expected to limit their potential to undergo long-range transport in the environment. Although soluble in water, nonylphenol ethoxylates have a relatively short primary half-life in water.
Environmental Fate	Avoid release to the environment.
Bioaccumulation Potential	Not Bioaccumulative (Not B).
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container in accordance with local, regional and national regulations.
Special Precautions for Land Fill	No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG

Proper Shipping Name	Ethoxylated nonylphenol
Class	C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	AU01

Land Transport (Malaysia)

ADR

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated nonylphenol)
Class	9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated nonylphenol)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated nonylphenol)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
ERG	171 Substances (Low to Moderate Hazard)
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

Sea Transport

IMDG

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated nonylphenol)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	Yes

Air Transport

IATA

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethoxylated nonylphenol)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information

No Data Available

Poisons Schedule (Aust)

Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code

HSR003054

National/Regional Inventories

Australia (AICS)

Listed

Canada (DSL)

Listed

Canada (NDSL)

Not Listed

China (IECSC)

Listed

Europe (EINECS)

500-024-6

Europe (REACH)

Registered

Japan (ENCS/METI)

Listed

Korea (KECI)

KE-26244; Restricted/prohibited substance: 06-5-6; Phase-in substance, subject to registration.

Malaysia (EHS Register)

Not Listed

New Zealand (NZIoC)

Listed

Philippines (PICCS)

Listed

Switzerland (Giftliste 1)

Not Determined

Switzerland (Inventory of Notified Substances)

Not Determined

Taiwan (NCSR)

Listed

USA (TSCA)

Listed

16. OTHER INFORMATION

Related Product Codes

SUFNOI1000, SUFNOI1100

Revision

1

Revision Date

24 Jun 2014

Key/Legend

< Less Than
> Greater Than
AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm² Square Centimetres
CO₂ Carbon Dioxide
COD Chemical Oxygen Demand
deg C (°C) Degrees Celcius
EPA (New Zealand) Environmental Protection Authority of New Zealand
deg F (°F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluble in each other.
inHg Inch of Mercury
inH₂O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb Pound
LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or **L** Litre
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH₂O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Health and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight