

#### 1. IDENTIFICATION

Product Name Nonyl Phenol Pure 11

Other Names Nonylphenol polyethylene glycol ether; Polyethylene glycol, nonylphenyl ether

**Uses** Nonionic surfactant; Emulsifier; Detergent.

 Chemical Family
 No Data Available

 Chemical Formula
 (C2H40)nC15H240

 Chemical Name
 Ethoxylated nonylphenol

 Product Description
 No Data Available

# **Contact Details of the Supplier of this Safety Data Sheet**

 Organisation
 Location
 Telephone

 Redox Ltd
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40400 Shah Alam Sengalor, Malaysia

# **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<br>131126                      |
| Chemcall                   | Australia    | 1800-127406<br>+64-4-9179888               |
| Chemcall                   | Malaysia     | +64-4-9179888                              |
| Chemcall                   | New Zealand  | 0800-243622<br>+64-4-9179888               |
| National Poisons Centre    | New Zealand  | 0800-764766                                |
| CHEMTREC                   | USA & Canada | 1-800-424-9300 CN723420<br>+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 **P270** Do not eat, drink or smoke when using this product.

**P273** Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.
P312 Call a POISON CENTER or doctor if you feel unwell.

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)

Response

**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 **6.1D** Substances that are acutely toxic - Harmful

**6.3A** Substances that are irritating to the skin

**6.8B** Substances that are suspected human reproductive or developmental toxicants

**8.3A** Substances that are corrosive to ocular tissue

Environmental **9.1A** Substances that are very ecotoxic in the aquatic environment

Hazards

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

| Chemical Entity                       | Formula         | CAS Number | Proportion  |
|---------------------------------------|-----------------|------------|-------------|
| Nonylphenol polyethylene glycol ether | (C2H4O)nC15H24O | 9016-45-9  | >99 - 100 % |

## **4. FIRST AID MEASURES**

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink a glass of water. Do not induce vomiting. Call a Poison Centre or

doctor/physician for advice. Never give anything by mouth to an unconscious person.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Remove contaminated clothing and shoes immediately. Wash skin with warm running 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. If respiratory symptoms

persist, get medical advice/attention.

Advice to Doctor If exposed or concerned, get medical advice/attention. Treat symptomatically.

Medical Conditions Aggravated by No information available.

**Exposure** 

#### **5. FIRE FIGHTING MEASURES**

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Combustible solid; May burn but does not ignite readily. Flame might be invisible in daylight.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets.

**Fire and Explosion Hazard** Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

**Hazardous Products of** 

Combustion

Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

Flash Point >220 °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 Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid

generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Collect material (sweep or vacuum up) and seal in properly labelled containers for disposal (see SECTION 13). Avoid

dispersal of dust in the air.

**Containment** Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

**Decontamination** Wash area down with excess water.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher

ground.

#### 7. HANDLING AND STORAGE

**Handling** Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust or mist and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). WARNING! May form combustible dust concentrations in air (during processing). Provide adequate precautions, such as electrical grounding and bonding, or

inert atmospheres.

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Check regularly for

leaks. Protect containers against physical damage. Keep away from heat and sources of ignition - No smoking. Keep

away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.

**Container** Keep in the original container.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General** No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

**Exposure Limits** No Data Available

**Biological Limits** No information available.

**Engineering Measures** 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: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust

mask/particulate filter respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side

shields or chemical splash goggles.

- Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. Rubber.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Protective

working clothes and safety shoes.

**Special Hazards Precaustions** 

No information available.

**Work Hygienic Practices** 

Do not eat, drink or smoke when using this product. Wash hands before break and at the end of work. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping should be

instituted to ensure that dusts do not accumulate on surfaces.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid
Appearance Liquid

**Odour** No information available

Colour Clear 5 - 7 рН

**Vapour Pressure** <0.0013 kPa (@ 20 °C)

**Relative Vapour Density** >1 Air = 1 **Boiling Point** >250 °C

**Melting Point** No Data Available **Freezing Point** No Data Available Solubility Soluble in water **Specific Gravity** 1.050 - 1.070

**Flash Point** >220 °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

**VOC Volume** No Data Available **Additional Characteristics** No information available.

**Potential for Dust Explosion** Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

**Fast or Intensely Burning** 

Characteristics

**Viscosity** 

**Volatile Percent** 

No information available.

No Data Available

No Data 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 solid; May burn but does not ignite readily. Flame might be invisible in daylight.

**Reactions That Release Gases or** 

**Vapours** 

Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.

**Release of Invisible Flammable** 

Vapours and Gases

No information available.

#### 10. STABILITY AND REACTIVITY

**General Information** Product is stable under normal conditions. **Chemical Stability** Stable under normal conditions of use.

**Conditions to Avoid**Avoid generating dust. Avoid excessive heat and sources of ignition.

Materials to Avoid
Incompatible/reactive with strong oxidising agents, strong acids.

**Hazardous Decomposition** 

**Products** 

Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.

**Hazardous Polymerisation** No information available.

#### 11. TOXICOLOGICAL INFORMATION

**General Information** - Acute toxicity: Harmful if swallowed.

Skin corrosion/irritation: Causes skin irritation.
Eye damage/irritation: Causes serious eye damage.
Respiratory/skin sensitisation: No information available.
Germ cell mutagenicity: No information available.

- Carcinogenicity: No information available.

- Reproductive toxicity: Suspected of damaging fertility or the unborn child.

STOT (single exposure): No information available.
STOT (repeated exposure): No information available.
Aspiration toxicity: No information available.

Acute

**Ingestion** Acute toxicity (Oral):

- LD50, Mice: 1,310 mg/kg [Supplier's SDS].

Carcinogen Category None

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Aquatic toxicity:

- LC50, Fish (Guppies): 16.4 mg/L (48 h).

- EC50, Crustacea (Daphnia magna): 18.2 mg/L (48 h).

Persistence/Degradability No information available.

Mobility No information available.

**Environmental Fate** Very toxic to aquatic life - Avoid release to the environment.

**Bioaccumulation Potential** No information available.

Environmental Impact No Data Available

# 13. DISPOSAL CONSIDERATIONS

**General Information** Dispose of contents/container in accordance with local/regional/national regulations.

**Special Precautions for Land Fill** Empty containers should be decontaminated and recycled, if possible.

#### 14. TRANSPORT INFORMATION

# Land Transport (Australia)

ADG Code

Proper Shipping Name Nonyl Phenol Pure 11

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

Comments Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle

exceeding 500 kg(L) or IBCs.

#### Land Transport (Malaysia)

ADR Code

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** Code

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 F-A, S-F Marine Pollutant Yes

Air Transport

IATA DGR

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 HSR002503

**National/Regional Inventories** 

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

**Switzerland (Inventory of Notified** 

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

# **16. OTHER INFORMATION**

Related Product Codes SUFNOD1000, SUFNOD1001, SUFNOD1002, SUFNOD1003, SUFNOD1800, SUFNOD1801, SUFNOD1802, SUFNOD1803,

SUFNOD1804, SUFNOD2000, SUFNOD3000

Revision 3

Revision Date 22 Feb 2021

Key/Legend < Less Than

> Greater Than

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

**CAS** Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 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/I Grams per Litre

**HSNO** Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury inH2O Inch of Water

**K** Kelvin **kg** Kilogram

kg/m³ Kilograms per Cubic Metre

**Ib** 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.

Itr 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

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath 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