



VAN CAO CHEMICAL

MATERIAL SAFETY DATA SHEET

1. COMPANY INFORMATION

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2. CHEMICAL PRODUCT

MATERIAL IDENTITY :
 Product Code Name : NP + 9 EO
 Chemical Name and
 Family or Description : Nonylphenol Polyethylene Glycol Ether
 Nonionic Surfactant Nonylphenol Ethoxylate
 Mol. Wt : 663 (Average)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description: Alternative CAS number is 37205-87-1 (Poly(oxy-1,2-ethanediyl),.alpha.-(isononylphenyl)-.omega.-hydroxy-).

COMPONENTS	CAS NUMBER	PROPORTION	RISK PHRASES
NONYL PHENOL REACTED WITH 9 MOLES OF ETHYLENE OXIDE	9016 – 45 – 9	100.00%	R 22 – R36/38, R 51/53

4. HAZARD IDENTIFICATION

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings, IBC's, or any other receptacle not exceeding 500 kg(L).

Risk Phrases:

Harmful if swallowed. Irritating to eyes and skin. Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Safety Phrases:

Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection.

Poisons Schedule:None allocated.

5. FIRST AID MEASURES

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

Skin Contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a

Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

Medical attention and special treatment:

Treat symptomatically.

6. FIRE FIGHTING MEASURES

Hazards from combustion products: Combustible liquid.

Precautions for fire fighters and special protective equipment:

On burning will emit toxic fumes, including those of oxides of carbon . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media:

Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal protein foam can be used.

Hazchem Code: · 3Z

7. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up:

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways.

Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal

8. HANDLING AND STORAGE

Conditions for safe storage:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 11. Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour.

9. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the National Occupational Health and Safety Commission.

Engineering controls:

Use in well ventilated areas. If inhalation risk exists: Use with local exhaust ventilation or while wearing organic vapour/particulate respirator. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

10. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:Liquid
Color	:Yellowish
Odor	:Characteristic
Molecular Formula	:(C ₂ H ₄ O) ₉ C ₁₅ H ₂₄ O
Solubility	:Miscible in water.
Specific Gravity	:ca. 1 @20°C
Relative Vapour Density (air=1)	:Not available
Vapour Pressure (20 °C)	:Not available
Flash Point (°C)	:>200
Flammability Limits (%)	:Not available
Autoignition Temperature (°C)	:>300
Boiling Point/Range (°C)	:Not available
pH	:5-7 (10 g/L, 25°C)
Viscosity	:ca. 400 mm ² /s @20°C (Kinematic)

11. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid	: Avoid exposure to heat, sources of ignition, and open flame.
Incompatible materials	: Incompatible with strong oxidising agents.
Hazardous decomposition products:	Oxides of carbon.
Hazardous reactions	: None known.

12. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion	:Swallowing may result in irritation of the gastrointestinal tract.
Eye contact	:A severe eye irritant. Contamination of eyes can result in permanent injury.
Skin contact	: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
Inhalation	: Breathing in mists or aerosols may produce respiratory irritation.

Long Term Effects:No information available for the product.

Toxicological Data:Oral LD₅₀ (rat): <2000 mg/kg.

SKIN: Irritant.

EYES: Irritant.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

14. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways.
Aquatic toxicity:	Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
48hr EC50 (Daphnia magna)	:19 mg/L.
96hr LC50 (fish)	:5.6 mg/L (Brachydanio rerio)

15. TRANSPORT INFORMATION

UN No	3082
Class-primary	:9 Miscellaneous Dangerous Goods
Packing Group	III
Proper Shipping Name	:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYLPHENOL ETHOXYLATE 9 MOL)
Hazchem Code	: 3Z

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No	3082
Class-primary	:9 Miscellaneous Dangerous Goods
Packing Group	II
Proper Shipping Name	:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYLPHENOL ETHOXYLATE 9 MOL)

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No	3082
Class-primary	:9 Miscellaneous Dangerous Goods
Packing Group	III
Proper Shipping Name	:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYLPHENOL ETHOXYLATE 9 MOL)

16. REGULATORY INFORMATION

Classification	:This material is hazardous according to criteria; HAZARDOUS SUBSTANCE.
Hazard Category	:Xn: Harmful Xi: Irritant
Risk Phrase(s)	:R22: Harmful if swallowed. R36/38: Irritating to eyes and skin. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrase(s)	:S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
Poisons Schedule	:None allocated.

17. REGULATORY INFORMATION

SDS first issued : 10 AUGUST 2000
SDS data revised : 22 NOV 2012 [1]

Disclaimer

The information contained in this document is intended to describe the product only in terms of health, safety and environmental requirements for the purposes of its safe handling, use and disposal and is to the best of PI's knowledge and belief correct. PI Technical Services will be pleased to give further advice and assistance, but customers must satisfy themselves (by appropriate testing if necessary) that the product is suitable for their purposes and conditions of use and that their facilities and arrangements are suitable for handling or using the product. Accordingly PI disclaims any liability for loss, injury or damage which may result from the use of the product, this information or from such advice and assistance save as may be expressly agreed under its term of sale.

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