

## Material Safety Data Sheet Nonylphenol Ethoxylates

### Section 1 - Product Identification

Synonyms : 4-Nonylphenol, mixture of isomers, p-Nonylphenol  
Chemical Formula : C<sub>15</sub>H<sub>24</sub>O  
Company Identification : Tradeasia International Pte. Limited  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: contact@chemtradeasia.com  
Recommended use : Laboratory chemicals

### Section 2 – Hazards Identification

#### 2.1 Classification

This substance is classified hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 2.2 Label elements

This substance is classified hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

##### Signal Word

Danger

##### Hazard Statements

Harmful if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

##### Precautionary Statements

##### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Do not get in eyes, on skin, or on clothing

##### Response

IF exposed or concerned: Get medical advice/attention

##### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

##### Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

##### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

### 2.3 Other hazards

Very toxic to aquatic life with long lasting effects

## Section 3 – Composition/Information on Ingredients

### 3.1 Composition comments

Formula :  $C_{19}H_{32}O_3$   
Molecular weight : 220.35 g/mol  
CAS-No. : 84852-15-3

Chemical Name	EC No/CAS No	Purity, %
Nonylphenol, 4-, Branched, Ethoxylated	127087-87-0	90 -100

## Section 4 – First-Aid Measures

### 4.1. Description of first aid measures

#### General Advice

In the case of accident, seek medical advice immediately (show the label where possible) if necessary. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### Skin Contact

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

#### Inhalation

Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration

#### Ingestion

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting without advice from poison control center.

### 4.2. Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

### **Section 5 – Fire Fighting Measures**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media**

Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam

**Unsuitable Extinguishing Media**

No information available

#### **5.2. Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed.

#### **5.3. Special protective actions for fire-fighters**

Wear self-contained breathing apparatus with a full-piece operated in positive pressure mode and appropriate protective equipment for firefighting if necessary.

### **Section 6 – Accidental Release Measures**

#### **6.1. Personal precautions, protective equipment, and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

#### **6.2. Environmental precautions**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

#### **6.3. Methods and material for containment and cleaning up**

Large Spills: Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination

### **Section 7 – Handling and Storage**

### 7.1. Precautions for safe Handling

Follow all warnings on the label. Use appropriate personal protective equipment. In areas where this substance is handled, stored, and processed, eating, drinking, and smoking should be prohibited. Employees should wash hands and face before eating, drinking, and smoking. Avoid get it in eyes, skin, or clothing. Do not ingest. When not in use, store in the original container or an approved replacement made of a compatible material that is tightly closed.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry and well-ventilated place. Store in a cool place. Keep out of direct sunlight.

## Section 8 – Exposure Controls/Personal Protection

### 8.1. Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### 8.2. Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear ace shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the 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. The selected protective gloves must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 – Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear to slightly hazy
Odor	No information available
Odor Threshold	No information available

pH	5 – 8 (10% aqueous)
Melting Point/Range	1.11 °C / 34 °F
Boiling Point/Range	Not available.
Flash Point	> 93.9 °C / 201.0 °F (Pensky-Martens Closed Cup)
Evaporation Rate	Estimated slower than ethyl ether
Flammability (solid, gas)	Not available
Flammability or explosive limits	
Upper	Not available
Lower	Not available
Vapor Pressure	Not determined or unknown
Vapor Density	Estimated heavier than air
Specific Gravity	1.05 – 1.07
Solubility	Disperses
Autoignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	240 cP @25 °C
Molecular Formula	C <sub>19</sub> H <sub>32</sub> O <sub>3</sub>
Molecular Weight	220.35 g/mol

## Section 10 – Stability and Reactivity

### 10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Material is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid:

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

### Section 11 – Toxicological Information

#### 11.1 Health effects associated with ingredients

##### Information on Toxicological Effects:

Acute oral toxicity LD50 rat	> 1000 mg/kg
Acute dermal toxicity LD50 rabbit	> 2000 mg/kg
Skin irritation	Causes mild skin irritation
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or skin sensitization	
Respiratory sensitization	Not available
Skin sensitization	This product is not expected to cause skin sensitization
Germ cell mutagenicity	No data available
Reproductivity toxicity	This product is not expected to cause reproductive or developmental effects
Specific target organ toxicity - single exposure	Not applicable
Specific target organ toxicity - repeated exposure	Not applicable
Aspiration hazard	Not applicable

**Carcinogenicity:** IARC Monographs? Not listed OSHA Regulated? Not listed NTP? Not listed

### Section 12 – Ecological Information

#### 12.1. Toxicity

Toxic to aquatic with long lasting effects

Toxicity to algae EC50	1 mg/l (72 hours)
Toxicity to crustacea EC50	1 mg/l (48 hours)
Toxicity to fish LC50	1 mg/l (96 hours)

#### 12.2. Persistence and degradability

Expected to be inherently biodegradable

#### 12.3 Bioaccumulative potential

N.A.

#### 12.3. Mobility in soil

N.A.

#### 12.4. Other adverse effects

No additional environmental adverse effects are known.

### Section 13 – Disposal Considerations

#### 13.1. Disposal methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

### Section 14 – Transport Information

#### 14.1 UN number

DOT: UN3145	TDG: UN3145	IATA: UN3145	IMDG/IMO: UN3145
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#### 14.2 UN proper shipping name

DOT: ALKYLPHENOLS, LIQUID, N.O.S.
TDG: ALKYLPHENOLS, LIQUID, N.O.S.
IATA: ALKYLPHENOLS, LIQUID, N.O.S.
IMDG/IMO: ALKYLPHENOLS, LIQUID, N.O.S.

#### 14.3 Transport hazard class(es)

DOT: 8	TDG: 8	IATA: 8	IMDG/IMO: 8
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#### 14.4 Packaging group

DOT: III	TDG: III	IATA: II	IMDG/IMO: II
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### Section 15 – Regulatory Information

#### 15.1. Safety, health, and environmental regulations

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16 : Additional Information

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