

Nonylphenol Ethoxylate 9.5 Mol

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

Date of issue:20/09/2017

Revision date: 26/07/2018

Supersedes: 20/09/2017

Version: 2.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixtures
Product name : Nonylphenol Ethoxylate 9.5 Mol
Product code : 201956

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Raw material
Recommended use : Industrial Applications

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

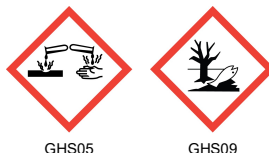
Classification according to the United Nations GHS

Acute toxicity (oral), Category 5 H303
Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment — Acute Hazard, Category 2 H401
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-UN) :



Signal word (GHS-UN) : Danger
Hazardous ingredients : Acetic Acid; 4-Nonylphenol, branched, ethoxylated
Hazard statements (GHS-UN) : H303 - May be harmful if swallowed
H318 - Causes serious eye damage.
H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS-UN) : P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
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 doctor.
P312 - Call a doctor if you feel unwell.
P391 - Collect spillage.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to the United Nations GHS
4-Nonylphenol, branched, ethoxylated	(CAS-No.) 127087-87-0	>= 60	Acute Tox. 5 (Oral), H303 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Acetic Acid	(CAS-No.) 64-19-7	< 1	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Aquatic Acute 3, H402

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. Seek medical attention immediately.
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. If you feel unwell, seek medical advice.

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

- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : May be harmful if swallowed. Ingestion may cause nausea and vomiting.
- Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use. Keep cool. Protect from sunlight.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetic Acid (64-19-7)		
India	PEL TWA (mg/m ³)	25 mg/m ³
India	PEL TWA (ppm)	10 ppm
India	PEL STEL (mg/m ³)	37 mg/m ³
India	PEL STEL (ppm)	15 ppm

8.2. Appropriate engineering controls

- Other information : Do not eat, drink or smoke during use.

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

- Hand protection : Wear Protective gloves.
- Eye protection : Chemical goggles or safety glasses
- Respiratory protection : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid.
- Colour : pale.
- Odour : slight.
- Odour threshold : No data available
- pH : 6.5 - 7.5
- pH solution : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Relative evaporation rate (ether=1) : No data available
- Melting point : No data available
- Freezing point : 5 °C
- Boiling point : No data available
- Flash point : 237.8 °C
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Non flammable
- Vapour pressure : ≤ 1 mm Hg @ 20C
- Vapour pressure at 50 °C : No data available
- Relative vapour density at 20 °C : ≥ 1
- Relative density : 1.06
- Relative density of saturated gas/air mixture : No data available

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Density	: 1.06 mg/l
Relative gas density	: No data available
Solubility	: Soluble. Water: $\geq 10\%$
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 110 cSt @ 37.7C
Viscosity, kinematic (calculated value) (40 °C)	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

VOC content : $\leq 1\%$

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: May be harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE UN (oral)	3313.668 mg/kg bodyweight
Unknown acute toxicity (GHS UN)Unknown acute toxicity (GHS UN)	1% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 1% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 1% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

4-Nonylphenol, branched, ethoxylated (127087-87-0)

LD50 oral rat	3314 mg/kg
LD50 dermal rabbit	> 3000 mg/kg

Acetic Acid (64-19-7)

LD50 oral rat	3310 mg/kg
LD50 dermal rabbit	1060 mg/kg
LC50 inhalation rat (mg/l)	11.4 mg/l/4h

Skin corrosion/irritation	: Not classified pH: 6.5 - 7.5
Serious eye damage/irritation	: Causes serious eye damage. pH: 6.5 - 7.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

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STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Unknown hazards to the aquatic environment (GHS-UN)	: Contains 1 % of components with unknown hazards to the aquatic environment
Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

4-Nonylphenol, branched, ethoxylated (127087-87-0)

LC50 fish 1	7.6 mg/l
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Acetic Acid (64-19-7)

LC50 fish 1	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 2	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Log Pow	-0.31 (at 20 °C)

12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment.
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4-Nonylphenol, branched, ethoxylated (127087-87-0)

Not rapidly degradable	
Persistence and degradability	60 % biodegradation - Not Readily - 28 days.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Acetic Acid (64-19-7)

Log Pow	See section 12.1 on ecotoxicology
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12.4. Mobility in soil

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Mobility in soil	No additional information available
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Acetic Acid (64-19-7)

Log Pow	See section 12.1 on ecotoxicology
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12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

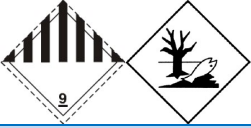


In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-Nonylphenol,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-Nonylphenol,	Environmentally hazardous substance, liquid, n.o.s. (4-Nonylphenol, branched, ethoxylated)

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UN RTDG	IMDG	IATA
branched, ethoxylated)	branched, ethoxylated)	
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

- UN RTDG

Special provisions (UN RTDG)	: 274, 331, 335, 375
Limited quantities (UN RTDG)	: 5L
Excepted quantities (UN RTDG)	: E1
Packing instruction (UN RTDG)	: P001, IBC03, LP01
Special packing provisions (UN RTDG)	: PP1
Portable tank and bulk container special instructions (UN RTDG)	: T4
Portable tank and bulk container special provisions (UN RTDG)	: TP1, TP29

- IMDG

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

- IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

SDS Major/Minor : None

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Indication of changes:

Modified. Composition/information on ingredients. Exposure controls/personal protection. Toxicological information. Ecological information.

Abbreviations and acronyms : ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
EC50 - Median effective concentration
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose

Other information : None.

Full text of H-statements:

H303	May be harmful if swallowed
H318	Causes serious eye damage.
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet applicable for regions : IN - India

SDS UN

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