

1. Product and Company Identification

Material name
Revision date
Chemical class
Manufacturer

PADANOXYLATE -2EO

19-05-2020
Surfactant
Padideh Shimi Gharb Co.
No.5.21rd St, Vozara St, Argentina Sq, Tehran,
Iran
+98-21-43413000

2. Hazards Identification

Physical hazards
Health hazards
Environmental hazards
OSHA defined hazards
Signal word
Label elements

Not classified.
Acute toxicity, oral Category 4
Serious eye damage/eye irritation Category 1
Hazardous to the aquatic environment, acute hazard Category 2
Not classified
Danger



Hazard statement

Harmful if swallowed. Causes serious eye damage.
Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Prevention

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing. Wear eye/face protection.

Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Collect spillage.

Storage

Store away from incompatible materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition / Information on Ingredients

Components	Percent
Nonylphenol, 4-, Branched, Ethoxylated	90-100
Other components below reportable levels	<0.1

4. First Aid Measures

First aid procedures
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

Skin contact	attention immediately. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse..
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

5. Fire Fighting Measures

Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Protective equipment and precautions for firefighters	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental Release Measures

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.
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. 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.

Methods and materials 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 product from entering drains. 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

7. Handling and Storage

Precautions for safe handling

Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment
Store in original tightly closed container.

Conditions for safe storage including any incompatibilities

8. Exposure Controls / Personal Protection

Biological limit values

No biological exposure limits noted for the ingredient(s).

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.

Individual protection measures, such as personal protective equipment

Eye / face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is recommended.

Skin protection

Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Wear protective gloves.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such

as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants

9. Physical & Chemical Properties

Appearance Clear liquid
Physical state Liquid.
pH 5.0 – 7.0 (5% in 1:1 IPA:H₂O)
Flash point > 201 °F (> 93.9 °C) Pensky-Martens Closed Cup
Flammability limits in air, upper, % by volume Not available.

Evaporation rate Estimated slower than ethyl ether
Melting point/freezing point Not available.
Viscosity 350-400 cP @ 25C
Density 0.99-1.0 Kg/L @ 25C
Pour point Not available.
Specific gravity Not available.

10. Stability & Reactivity

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

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials..

Incompatible materials Strong oxidizing agents. Strong acids.
Hazardous decomposition Irritating and/or toxic fumes and gases may be emitted upon the products
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

11. Toxicological Information

Information on likely routes of exposure
Ingestion Harmful if swallowed
Inhalation No adverse effects due to inhalation are expected.
Skin contact Causes mild skin irritation.
Eye contact Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics Not available
Information on toxicological effects
Acute toxicity

Product	Species	Test Results
Nonylphenol Ethoxylate-2EO		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg

Eye contact Causes serious eye irritation

Carcinogenicity This product is not considered to be a carcinogen by

Skin corrosion/irritation
Reproductive effects

IARC, ACGIH, NTP, or OSHA.

Causes mild skin irritation.

This product is not expected to cause reproductive or developmental effects.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Not listed

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity- single exposure

Not applicable.

Aspiration hazard

Not applicable

Specific target organ toxicity - repeated exposure

Not applicable

12. Ecological Information

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Product	Species	Test Results
Nonylphenol Ethoxylate-2EO		
Aquatic		
Acute		
Algae	EC50	> 1 mg/l, 72 hours
Crustacea	EC50	> 1 mg/l, 48 hours
Fish	LC50	> 1 mg/l, 96 hours
Persistence / degradability		Expected to be inherently biodegradable
Bioaccumulation / Accumulation		No data available.
Mobility in environmental media		No data available for this product.
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Waste codes

Dispose of contents/container in accordance with local/regional/national/international regulations

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

General

The provided transportation classifications are for bulk shipments only and may not be representative of all package/shipment sizes.

DOT

UN number

UN3082

UN proper shipping name

Environmentally Hazardous Substance, Liquid,
N.O.S. (Alcohol C12-C16 Poly (1-6) Ethoxylate),
MARINE POLLUTANT

Transport hazard class(es)

Class

9

Subsidiary risk

-

Packing group

III

Environmental hazards

Marine pollutant

Special precautions for user

Yes

Not available.

IMDG

UN number

UN3082

UN proper shipping name

Environmentally Hazardous Substance, Liquid,
N.O.S. (Alcohol C12-C16 Poly (1-6) Ethoxylate),
MARINE POLLUTANT

Transport hazard class(es)

Class

9

Subsidiary risk

-

Packing group

III

Environmental hazards

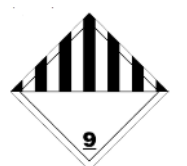
Marine pollutant

Special precautions for user

Yes

Not available.

DOT; IATA; IMDG



Marine pollutant



15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16. Other Information

Recommended restrictions

For industrial use only.

NFPA ratings

Health: 2

Flammability: 1

Disclaimer

Instability: 0

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