

Based on Regulation (EC) 1907/2006 of the European Parliament and Council (REACH)

Trade Name: Neonol AF 9-9, Neonol AF 9-9,5

Issue Date: 2010-11

Review Date: -Revision: 1.0

- 1 Identification of substance/mixture Identification of company/enterprise
- 1.1 Identification of substance/mixture: Identification on the label/trade name:

Synonyms:

Supplementary information: Регистрационный номер REACH:

Usage of substance/mixture:

1.2.1 Identified Usage Types:1.2.2 Non-recommended Usage Types:

Neonol AF 9-9, Neonol AF 9-9,5 Nonylphenol ethoxylated

Nonylphenol 01-2119510715-45-0008 Ethylene Oxide: 01-2119432402-53-0036

Used for oil formation flooding making oil production more efficient, for well drilling, in textile, pulp and paper, woodworking industry, as a component of coolunts, hydraulic and other process fluids, in iron industry

Legislation

May not be placed on the market or used as a substance or constituent of preparations in concentrations equal or higher than 0,1 % by mass for the following purposes:

- (1) industrial and institutional cleaning except: controlled closed dry cleaning systems where the washing liquid is recycled or incinerated, cleaning systems with special treatment where the washing liquid is recycled or incinerated;
- (2) domestic cleaning;
- (3) textiles and leather processing except: processing with no release into waste water, systems with special treatment where the process water is pretreated to remove the organic fraction completely prior to biological waste water treatment (degreasing of sheepskin);
- (4) emulsifier in agricultural teat dips;
- (5) metal working except: uses in controlled closed systems where the washing liquid is recycled or incinerated:
- (6) manufacturing of pulp and paper;
- (7) cosmetic products;



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2 Hazards Identification

2.1 Hazard Description: Moderately hazardous substance. N – Hazardous for environment

2.1.1 Classification:

According to Resolution (EC) №1272/2008 (CLP):

Classification:

Hazard Sign:

GHS09



Hazard Statement - H-phrases:

H411: Toxic to aquatic life with long lasting

Precautionary Statement - P-phrases:

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to ... see p.13

According to Directive 67/548/EEC or 1999/45/EC):

The substance to be classified as follows:

Health impact:

R 36 Irritating to eyes

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Marking

Hazard Statement:

Hazard Symbols: Xi, N



Xi-Irritant



N- Dangerous for the Environment



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Risk phrases:

R 36 Irritating to eyes

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

S 26 In case of ingress into eyes, immediately wash with plenty of water and seek medicak assistance S61 Avoid entry into the environment. See special instructions/Material Data Sheet

2.2 Information on special hazards for humans and environment:

No physical and chemical impact: None Negative health effects and their symptoms:

Eye contact

Irritant for eyes. Attributes and symptoms of eyes irritation include red-

ness, lacrimation

Skin contact Inhalation Irritation is possible in case of contact with the damaged skin

Inhalation intoxication is unlikely due to low vapour pressure. Upon impact of high concentrations – dormancy, aggravation of

reaction to exogenous irritants.

Ingestion

Inhalation might cause damage of gastrointestinal tract.

<u>Negative environmental impact:</u> Toxic impact on aquatic organisms might have long-term adverse impact in the aquatic environment. Water course pollutant. Special flavour of water could be signs of such impact.

Other hazards: Subject to transformation in the environment. Transformation products: Nonylphenol, hexaethyleneglycol.

3 Composition / Information on components

3.1 Substance Information:

Chemical name/ Synonyms	№ EC	№ REACH	№ In- dex	№ CAS	Content (%)	Classification according to Directive (EC) № 1272/2008 [CLP]		Classification according to 67/548/EEC
						Hazard class / Hazard Cate- gory	Hazard Designa- tions	
Neonol AF 9-9 Neonol AF 9-9,5	500-024-	Not subject to regis- tration	None	9016- 45-9	98,5	Aguatic chronic 2	H411 GHS09	N:R36; R 51/53
Polyethyleneglycol	500-038-	Not subject to regis- tration	None	25322- 68-3	1,0	not classified		
Water	231-791-	Not subject to regis- tration	None	7732- 18-5	0,5	not classified		

3.3. Note:

Complete text of R-and H-phrases: see Section 16



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4 First aid measures

4.1 General:

Moderately hazardous substance in terms of impact on the organism.

Inhalation intoxication is unlikely due to low vapour pressure.

4.2 Inhalation:

Fresh air. In case of labored respiration call a doctor.

4.3 Skin contact:

Remove contaminated clothes. Wash the skin with warm water and soap.

Before subsequent usage, wash the clothes.

4.4 Eye contact:

Immediately wash eyes with plenty of warm water, holding the lids open.

Deliver a person to the nearest medical facility to administer further medical

treatment.

4.5 Ingestion:

Abundant water drink, activated carbon. Do not induce vomiting. In case of

vomiting turn the victim to the left side in order to minimize risk of aspiration.

Do not give anything to an unconscious person. Call a doctor.

4.6 Advice to physician:

Request instructions from the Entoxication Control Center.

5 Fire fighting measures

5.1 Recommended fireextinguishing means In case of fire of minor product quantity, use foam, carbon-dioxide fire

extinguishers, sand, dry powder.

In case of major fire, use finely dispersed water, generated mechanical

and chemical foam.

5.2 Prohibited fireextinguishing means

Prohibited fire extinguishing means are not established.

5.3 Special hazards of the product exposure, hazardous products of combustion and thermal

Carbon oxides and carbon dioxides. Heated product might decompose

forming: carbon oxide (CAS №124-38-9).

decomposition

Carbon oxides reduce oxygen (O_2) content in the air; they may have a toxic effect on the cells causing the cell respiration disturbance.

5.4 Personal protection and fire-extinguishing equipment

Use a fire-resistant suit and a self-contained breathing apparatus.

5.5 General recommendations

Remove personnel not participating in fire-fighting from the site of the fire.

Measures for prevention and management of emergencies

6.1 Personal protection6.2 Environmental

Use a fire-resistant suit and a self-contained breathing apparatus.

Contamination of water bodies and soil should be avoided.

protection measures

A

Based on Regulation (EC) 1907/2006 of the European Parliament and Council (REACH)

6.3 Methods of neutralization, removal and cleaning

Collect the product and put it in the appropriate containers for disposal or reuse. After the material is collected ventilate the zone and wash the contaminated area with water. Prevent from entering sewer/surface waters/ground waters and soil.

6.4 Supplementary recommendation

None

7 Handling and storage

7.1 Handling

7.1.1 Advice for safe handling:

Safety precautions

Arrangement of supply-and-exhaust ventilation system and local ventilation. Use of pressure tight equipment for production. Equipment grounding is mandatory.

Reduction of product loss during transportation and storage, prevention

Use of personal protection equipment.

No mist or dust formation during handling

from discharge to water bodies, sewage system

mechanical objects and moisture into the product.

7.1.2 Technical measures:

Prevention of mist and

dust formation

Measures to be taken for

environmental protection:

7.1.3 Special

requirements and handling rules:

7.1.4 Prevention from

ignition and explosion:

7.2 Storage

Technical measures and storage conditions

Elimination of open fire sources

Packaging materials: - steel cisterns with heating jacket;

None

truck tanks;steel barrels;plastic barrels;

Requirements to storage premises and containers:

The product is stored at the ambient temperature in the closed room. Storage is allowed in the open areas, protected from direct sun rays. Multiple product heating is allowed at temperature not exceeding 100

In steel containers under nitrogen under conditions excluding ingress of

°C.

Other information on storage conditions:

Storage together with oxidizers, acids and caustics is prohibited. Shelf life -1 year from manufacture date.

8 Exposure control and personal protection



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8.1 Exposure limits MACw.a./TSELw.a.

8.2 Exposure control at the

working place

8.3 Personal protection8.3.1 Respiratory protection

8.3.2 Hand protection:

8.3.3 Eye protection: 8.3.4 Skin protection:

8.4 Control of environmental

impact

8.5 In everyday life:

Due to physical and chemical properties and low toxicity there is no

hygienic regulations for the air exposure limits.

Ensuring that the content of harmful substances is within permissible concentration limits by using supply-and-exhaust ventilation system in of the most contaminant air locations.

Use protective clothing made of cotton fabric. Not required under normal operating conditions.

In case of emergency – use filter gas-mask, breating masks. Oil-and-petrol resistant gloves, butyl rubber dispersion gloves

Protective goggles when working in open systems

Protective clothing made of cotton fabric.

Mesure concentration of pollutants. Entry of product should not be allowed either to the sewage and waste water, or to the soil and

ground water.

Not used in everyday life.

9 Physical and chemical properties

Appearance

Odor

Odor threshold Hydrogen index (pH) Solidification temperature

Flash point

Ignition temperature Auto-ignition temperature

Molecular weight Density at 40°C Solubility in water Transparent oily liquid from colourless to

yellowish colour

Weak

Not established $(7,0\pm1,0)$ units (3-8) °C

Max. 245 deg. C (open crucible)

Min. 245°C. Min. 395°C 616 (638) (1045±3) kg/m³ Soluble

10 Stability and reactivity

10.1 Stability

The product is highly stable under normal conditions, no hazardous

polymerization and decomposition is observed

10.2 Conditions resulting in dangerous reactions

10.3 Materials causing dangerous reactions

10.4 Dangerous decomposition products

Heating above 200°C.

Oxidizers, acids, alkali

Carbon oxides, nonylphenol, hexaethyleneglycol

11 Toxicological properties



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Oral toxicity at single inges-

tion

LD50 = 5000 mg/kg, intragastric, rats

CL50 - not achieved

Percutaneous action

Cumulative effect

Sensibilization **Embiotropic action** Teratogenic action

Mutagenicity Carcinogenicity

Toxicity for reproductive

function and development

Absence

K = 3.9

NA NA

NA

NA NA

NA

12 **Environmental** impact

12.1 Ecotoxicity:

Might accumulate in water course, soil and impact flora and fauna, in certain cases might lead to fish kill.

Getting to water courses with ground waters, waste waters, containing neonols, slow down self-cleaning processes, aggravate organoleptic properties of water, have adverse impact on development of animals and plants, which inhabit water courses. Notwithstanding low toxicity of neonols, their presence in water courses above allowable concentration level might lead to fish intoxication as a result of substance accumulatuon in branchiaes and violation od gas exchange. Neonols are also hazardous for baby fish, eggs, aquatic microorganisms.

LC50 Fish (96 hours)

Minimum:

1,3 mg/l

Maximum: Median:

7,9 mg/l 6 mg/l

Study number:

Reference: Swedmark, M., A. Granmo, and S. Kollberg 1973. Effects of Oil Dispersants and Oil Emulsions on Marine Animals. Water Res. 7(11):1649-1672

LC50 Crustaceans (48 hours)

Minimum:

0,0026 mg/l

Maximum:

 $89.5 \, \text{mg/l}$ 11 mg/l

Median:

Study number:

Moore, S.B., R.A. Diehl, J.M. Barnhardt, and G.B. Avery 1987. Aquatic Toxicities of Textile Surfactants. Text.Chem.Color. 19(5):29-32



Based on Regulation (EC) 1907/2006 of the European Parliament and Council (REACH)

EC50 Crustaceans (48 hours)

Minimum: 14 mg/l Maximum: 14 mg/l Median: 14 mg/l

Study number: 1

Reference: Dorn, P.B., J.P. Salanitro, S.H. Evans, and L. Kravetz 1993. Assessing the Aquatic Hazard of Some Branched and Linear Nonionic Surfactants by Biodegradation and Toxicity. Environ.Toxicol.Chem.

12(10):1751-1762

NA

12.2 Immunity and

degradability:

Complete biological degradability less then 60%

12.3 Bioaccumulation:

Moderate bioaccumulation

12.4 Other negative effects:

12.5 PBT/vPvB

Fail to meet the criteria

13 Removal and/or disposal of wastes (remains)

13.1 Methods of disposal of wastes (remains)

Send polluted waste waters and washing waters to the concentration unit, thereafter deliver concentrated waters to incineration at the approved incinerator, and dispose of conventionally treated waters and partially snd them to advanced treatment to the biological treatment plant.

Code of wastes

07 01 wastes from manufacture, processing, supply and use of principal ogranic chemical substances

S61 – avoid entry into the environment

13.2 Appropriate packaging

Packaging is designed for liquid wastes

14 Safety requirements during transportation

ADR

Class 9
Group of packing III
Classification code M6
Hazard identification number 90
UNO number 3082
Hazard identification 9082
(principal risk) 9

Precise name for transporta-

Неонол АФ 9-6

tion

Neonol AF 9-9 (Neonol AF 9-9,5)



Based on Regulation (EC) 1907/2006 of the European Parliament and Council (REACH)

RID

Class 9

Group of packing III III

Classification code M6

Hazard identification number 90

UNO number 3082

Hazard identification 9082

(principal risk) 9

Precise name for transporta- Heонол AФ 9-6

tion Neonol AF 9-9 (Neonol AF 9-9,5)

IMDG

UNO number 3082

Precise name for transporta- Neonol AF 9-9 (Neonol AF 9-9,5)

tion

Class / Subdivision

Group of packing III

Pollutant of marine envi- Yes (•)

ronment:

IATA

UNO number 3082

Correct name for transporta- Neonol AF 9-9 (Neonol AF 9-9,5)

tion

Class 9

Group of packing III

15 Regulatory information

Hazard according to definition of hazardous substances given in EC/Directives on preparations:





EC Marking:

N (Hazardous for environment) X

Risk phrases:

Symbol:

R 36 Irritating to eyes.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

S 26 In case of ingress into eyes, immediately wash with plenty of water and seek medicak assistance



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S61 Avoid entry into the environment. See special instructions/Material Data Sheet

Hazard According to Resolution (EC) №1272/2008 (CLP):

GHS09



Hazard Statement - H-phrases:

H411: Toxic to aquatic life with long lasting

Precautionary Statement - P-phrases:

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P391: Collect spillage.

P501: Dispose of contents/container to ... see p.13

16 Supplementary information

EC Directives on Hazardous Substances/Compositions

67/548/EEC or 1999/45/EC, Regulation (EC) № 1272/2008 [CLP]

Information

ESIS – European Chemical Substances Information System (European Chemicals Bureau). Hazardous Substance Data Bank (HSDB).-U.S.National Library of Medicine, 2001-1.

source:

Information in this Material Safety Data Sheet is based on the current state of knowledge and legislation in force and refers solely to the description of rules for safe work with the product. This product should not be used for purposes other than those specified in section 1. The consumer is fully responsible for fulfilling of all the requirements of local rules and laws. The above information is not the guarantee of the product quality.