

MATERIAL DATA SAFETY SHEET



Based on Regulation (EC) 1907/2006 of the European Parliament and Council (REACH), EU /830/2015

Trade Name: **Neonol AF 9-9**

Issue Date: **2011-01**

Review Date: 2017-11

Revision: 1.3 instead of v.1.2 from 2017-02

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:

Neonol AF 9-9

Nonylphenol ethoxylated

Monomers:

Nonylphenol 01-2119510715-45-0008 (this substance is included in the Candidate List of SVHC)

Ethylene Oxide: 01-2119432402-53-0036

1.2 Usage of substance/mixture:

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

Non-recommended Usage Types:

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 pre-treated 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;

1.3 Identification of company/enterprise:

Supplier/producer

PJSC Nizhnekamskneftekhim

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Address Nizhnekamsk
Telephone/fax +7(8555)377445
MSDS prepared by: e-mail: ...nknh@nknh.ru...
ShuvalovaOV@nknh.ru,
BayazitovaLH@nknh.ru

Special representative:

Name Oy Nizhex Scandinavia Ltd
Address Wavulinintie 10
HELSINKI 00210
Finland
Jari Taipale
Tel./Fax. +35 896824700
e-mail jari.taipale@nizhex.fi

1.4 Emergency telephone number:

Emergency telephone number:

- product recipient country

To be specified in each country by the consumer

Refer to section 16 of this safety data sheet.

- country of origin

+7 (8555) 37-72-07, (8555) 37-78-30,

+7 (8555) 37-72-65, (8555) 37-74-45

From 8.00 to 17.00 on weekdays.

2 Hazards Identification

2.1 Classification:

According to Regulation (EC) No. 1272/2008 (CLP):

- Environmental hazard

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting

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 redness, lacrimation
Skin contact	Irritation is possible in case of contact with the damaged skin
Inhalation	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.

Negative environmental impact: 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.

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2.2 Label elements.

Signal word: Absent

GHS09



Hazard Statement - H-phrases: H411

Precautionary Statement - P-phrases: P273, P391, P501

For detailed marking description refer to Section 16

2.3 Other hazards: Subject to transformation in the environment. Transformation products: Nonylphenol, hexaethyleneglycol. It is not PBT nor vPvB.

3 Composition / Information on components

3.1 Substance Information:

Chemical name/ Synonyms	№ EC	№ REACH	№ Index	№ CAS	Content (%)	Classification according to Directive (EC) № 1272/2008 [CLP]	
						Hazard class / Hazard Category	Hazard Designations
Neonol AF 9-9	500-024-6	Not subject to registration	None	9016-45-9	98,5	Aquatic chronic 2	H411 GHS09
Polyethyleneglycol	500-038-2	Not subject to registration	None	25322-68-3	1,0	not classified	

4 First aid measures

4.1 First aid measures

General: Moderately hazardous substance in terms of impact on the organism.
Inhalation intoxication is unlikely due to low vapour pressure.

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

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Skin contact:	Remove contaminated clothes. Wash the skin with warm water and soap. Before subsequent usage, wash the clothes.
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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact	Irritant for eyes. Attributes and symptoms of eyes irritation include redness, lacrimation
Skin contact	Irritation is possible in case of contact with the damaged skin
Inhalation	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.

4.3 Indication of any immediate medical attention and special treatment needed

Request instructions from the Entoxication Control Center.

5 Fire fighting measures

5.1 Extinguishing media

Recommended fire-extinguishing 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.
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Prohibited fire-extinguishing means Prohibited fire extinguishing means are not established.

5.2 Special hazards arising from the substance or mixture

Carbon oxides and carbon dioxides. Heated product might decompose forming: carbon oxide (CAS №124-38-9).
Carbon oxides reduce oxygen (O₂) content in the air; they may have a toxic effect on the cells causing the cell respiration disturbance.

5.3 Precautions for fire-fighters

Use a fire-resistant suit and a self-contained breathing apparatus. Remove personnel not participating in fire-fighting from the site of the fire.

6 Measures for prevention and management of emergencies

6.1 Personal protection	Use a fire-resistant suit and a self-contained breathing apparatus.
6.2 Environmental protection measures	Contamination of water bodies and soil should be avoided.

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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

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.

Use of personal protection equipment.

Prevention of mist and dust formation

No mist or dust formation during handling

Incompatible substances

Storage together with oxidizers, acids and caustics is prohibited.

Measures to be taken for environmental protection:

Reduction of product loss during transportation and storage, prevention from discharge to water bodies, sewage system

Occupational hygiene:

Wash thoroughly after handling.

Take-off contaminated clothing and individual protection equipment before meal.



Authorized persons only



No drinking, no eating

7.2 Safe storage conditions

Prevention from ignition and explosion:

Elimination of open fire sources

Technical measures and storage conditions

In steel containers under nitrogen under conditions excluding ingress of mechanical objects and moisture into the product.

Packaging materials:

- steel cisterns with heating jacket;
- truck tanks;
- steel barrels;
- plastic barrels;

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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 °C.

Other information on storage conditions: Shelf life – 1 year from manufacture date.

7.3 Specific end use:
none

8 Exposure control and personal protection

8.1 Exposure limits
MAC_{w.a.}/TSEL_{w.a.} Due to physical and chemical properties and low toxicity there is no hygienic regulations for the air exposure limits.

8.2 Exposure control at the working place
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.

Personal protection Use protective clothing made of cotton fabric.

Respiratory protection Not required under normal operating conditions.

In case of emergency – use filter gas-mask, breathing masks.

Hand protection: Oil-and-petrol resistant gloves, butyl rubber dispersion gloves

Eye protection: Protective goggles when working in open systems

Skin protection: Protective clothing made of cotton fabric.

Control of environmental impact Measure concentration of pollutants. Entry of product should not be allowed either to the sewage and waste water, or to the soil and ground water.

Consumer Exposure Control Not used in everyday life.

9 Physical and chemical properties

9.1 Basic Physical and Chemical Properties

Appearance	Transparent oily liquid from colourless to yellowish colour
Odor	Weak
Odor threshold	Not established
Hydrogen index (pH)	(7,0±1,0) units
Solidification temperature	(3-8) °C
Flash point	Max. 245 deg. C (open crucible)
Ignition temperature	Min. 245°C.
Auto-ignition temperature	Min. 395°C
Molecular weight	616
Density at 50°C	(1045±3) kg/m ³
Solubility in water	Soluble

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10 Stability and reactivity

10.1 Reactivity	React with Oxidizers, acids, alkali
10.2 Chemical Stability	The product is highly stable under normal conditions, no hazardous polymerization and decomposition is observed
10.3 Possibility of hazardous reactions	It is unlikely
10.4 Conditions to Avoid	Heating above 200°C.
10.5 Materials to Avoid	Oxidizers, acids, alkali
10.6 Hazardous Decomposition Products	Carbon oxides, nonylphenol, hexaethyleneglycol

11 Toxicological properties

11.1 Information on Toxicological Effects

Oral toxicity at single ingestion	LD50 = 3400 mg/kg, intragastric, rats CL50 - not achieved
Percutaneous action	Absence
Cumulative effect	Absence
Sensibilization	Absence
Embriotropic action	Absence
Teratogenic action	Absence
Mutagenicity	NA
Carcinogenicity	NA
Toxicity for reproductive function and development	Absence

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.
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LC50 Fish (96 hours)

Minimum: 1,3 mg/l

Maximum: 7,9 mg/l

Median: 6 mg/l

Study number: 5

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 mg/l

Median: 11 mg/l

Study number: 9

Reference: 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

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

12.2 Immunity and degradability:

Complete biological degradability less then 60%

12.3 Bioaccumulation Potential

Moderate bioaccumulation

12.4 Mobility:

NA

12.5 Results of PBT/vPvB

Fail to meet the criteria

assessment

12.6 Other adverse effects:

none

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 send them to advanced treatment to the biological treatment plant.

Code of wastes

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

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14 Safety requirements during transportation

ADR

Class	9
Package Group	III
Classification Code	M6
Hazard Identification no.	90
UN No.	3082
Hazard Sign	9
Correct Transportation Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trade name: Neonol AF 9-9)

RID

Class	9
Package Group	III
Classification Code	M6
UN No.	3082
Correct Transportation Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trade name: Neonol AF 9-9)

ADN

UN No.	3082
Correct Transportation Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trade name: Neonol AF 9-9)
Class	9
Package Group	III
Hazard Types	9+(N1, N2, CMR, F or S)
Classification Code	M6

IMDG

UN No.	3082
Correct Transportation Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trade name: Neonol AF 9-9)
Class / Section	9
Package Group	III
Marine Pollutant:	Yes (•)

IATA

UN No.	3082
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Correct Transportation Name ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (trade name:
Neonol AF 9-9)

Class 9
Package Group III

IMO

Correct Transportation Name Noxious liquid, n.o.s., trade name: Neonol AF 9-9
Pollution Class Y
Class of ship 2

15 Regulatory information

National Regulatory Documents:

- Regulation (EC) No.1907/2006 of European Parliament and Council dd. 18/12/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), organizing European Chemical Agency, completing the Directive 1999/45/EC and abolishing Council Regulation (EEC) No.793/93 and Commission Regulation (EC) No.1488/94, as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

16 Supplementary information

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

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

National emergency service phones:

Country	Telephone No.
Austria	Tel: +43 1 31304 5620 Email: sdbreg@umweltbundesamt.at Website: http://www.umweltbundesamt.at Umweltbundesamt GmbH Abteilung Chemikalien

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Belgium	Tel: +32 02 264 96 36 Fax: +32 02 264 96 46 Website: http://www.centreantipoisons.be/ Centre antipoisons / Antigif Centrum
Bulgaria	Tel/ fax: +359 2 9154 409 Email: poison_centre@mail.orbitel.bg Website: http://www.pirogov.bg National Toxicology Center
Croatia	Fax: + 385 01 46 41 368 E-mail: hzt@hzt.hr Website: www.hzt.hr Croatian Institute for Toxicology and Antidoping
Cyprus	Tel: +35722405611 E-mail: CY-ChemRegistry@dli.mlsi.gov.cy Department of Labour Inspection Ministry of Labour Welfare and Social Insurance
Czech Republic	+420 224 919 293, +420 224 915 402 Toxikologické informační středisko
Denmark	Tel: +45 70 12 12 88 Email: at@at.dk Website: http://arbejdstilsynet.dk/en/engelsk/produktregistret.aspx The Product Registry, Danish Working Environment Authority (only mixtures for professional use)
	Tel: +45 72 54 40 00 Email: mst@mst.dk Submission via database: http://www.virk.dk/myndigheder/stat/MST/Miljoestyrelsens_produktinformation Website: www.mst.dk The Danish Environmental Protection Agency
Estonia	Tel: +372 62 69 379 Email: info@16662.ee Website: http://www.16662.ee/ Poisoning Information Centre Health Board
Finland	Email : tuoterekisteri@tukes.fi Website: http://www.tukes.fi/en/Branches/Chemicals-biocidesplant-protection-products/Submitting-information-on-chemicals-/ Chemical Products Register, Finnish Safety and Chemicals Agency (Tukes)
France	Tel: +33 1 40 44 30 00 Website: https://www.declaration-synapse.fr/synapse (link to site Synapse, for the declaration of chemicals mixtures) Institut national de recherche et de sécurité (INRS)
	Tel : +33 3 83 22 50 50 Email: cap@chu-nancy.fr Website: http://www.centres-antipoison.net/ Centre antipoison et de toxicovigilance de Nancy

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Germany	Tel. +49 30-18412-3460 Fax +49 30-18412-3929 Email: produkt-meldungen@bfr.bund.de Website: http://www.bfr.bund.de/en/home.html Submission of formulations via: http://www.bfr.bund.de/en/notifications_of_formulations-10144.html Federal Institute for Risk Assessment (BfR) Unit: Poison and Product Documentation Centre
Greece	Tel: +30 210 6479409, Fax: +30 210 6466917, Email : environment@gcsl.gr General Chemical State Laboratory Directorate of Environment, section B
Hungary	Website: www.okbi.hu Email: clpnotification@okbi.antsz.hu (Note: This email address is intended to serve exclusively information purposes and not to be used to submit documentation.) National Institute of Chemical Safety (HU: Országos Kémiai Biztonsági Intézet, OKBI)
Iceland	+354 543 2222 Eitrunarmiðstöð
Ireland	Tel: +353 1 8092566 Email: npicdublin@beaumont.ie Website: www.poisons.ie Beaumont Hospital - National Poisons Information Centre
Italy	Tel: +39 0649906140 and +39 0649902064 Email: rosa.draisci@iss.it and maristella.rubbiani@iss.it Website: www.preparatipericolosi.iss.it Istituto Superiore di Sanità, National Center for Chemicals
Latvia	Tel: +371 67032600 Email: lvgmc@lvgmc.lv Website: www.meteo.lv/en/ Latvian Environment, Geology and Meteorology Centre (LEGMC)
Liechtenstein	Information is not available
Lithuania	Tel: + 370 70662008 Fax: + 370 70662000 Email: chemija@aaa.am.lt Environmental Protection Agency
Luxemburg	Tel: + 352 24785551 Email: Direction-sante@ms.etat.lu Website: http://www.ms.public.lu/fr/direction/index.html Ministère de la Santé
Malta	21243314 – Florianna, 22563000 – Rabat, 22695701/2 – Mosta.
Holland	Tel: +31 88 75 585 61 Email: productnotificatie@umcutrecht.nl Website: http://www.productnotification.nl National Poisons Information Center University Medical Center Utrecht

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Norway	Tel: +47 73 58 05 00 Email: produktregisteret@miljodir.no Website: http://www.miljodirektoratet.no/no/Tema/Kjemikalier/Produktregisteret/The_Product_Register/ Norwegian Environment Agency
Poland	Phone: +48 42 25 38 400 Fax: +48 42 25 38 444 e-mail: biuro@chemikalia.gov.pl (general), mieszaniny@chemikalia.gov.pl (only notifications). Internet: www.chemikalia.gov.pl Submission of formulations via the portal ELDIOM http://eldiom.chemikalia.gov.pl Department for Dangerous Substances and Preparations/ /Bureau for Chemical Substances and Preparations
Portugal	Tel: + 351 213 303 271 Email: ciav.tox@inem.pt Website: www.inem.pt/ciav Centro de Informação Antivenenos Instituto Nacional de Emergência Médica
Rumania	Tel: +40 21 318 36 06 Email: mihaela.purcarea@insp.gov.ro Website: www.insp.gov.ro National Institute for Public Health
Slovakia	Tel: + 421 2 5465 2307 Email: ntic@ntic.sk Website: http://www.ntic.sk/ National toxicological information centre
Slovenia	Tel: +386 1 400 60 51 Fax: +386 1 400 62 66 Email: gp-ursk.mz@gov.si Website: http://www.uk.gov.si/ Chemicals Office (CORS), Ministry of Health
Spain	Tel: +34 917689800 Email: intcf@mju.es and sit.documentacion@mju.es Instituto Nacional de Toxicología y Ciencias Forenses
Sweden	Tel: +46 8 331231 Email: giftinformation@gic.se Website: http://www.giftinformation.se/ The Swedish Poison Information Center at the Medical Product Agency
United Kingdom	Email: director.birmingham.unit@npis.org Website: http://www.npis.org/ National Poisons Information Service (NPIS)

Abbreviations and acronyms

CAS no. – registration number for chemicals in Chemical Abstracts Service

EC no. - number of a substance in the list of ECHA

CLP – Classification, Labelling and Packaging

PBT – Persistent, Bioaccumulative, Toxic

vPvB – very Persistent, very Bioaccumulative

DNEL – Derived No-Effect Level

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DMEL – Derived Minimum Effect Level

PNEC – Predicted No-Effect Concentration

LD-50 – lethal **dose** for 50 percent of the animals used for testing

LC-50 – Lethal Dose concentration

NOAEC – *No – observed – Adverse – Effect Levels*

EC-50 - concentration of a chemical which induces a response equal to half maximal effective concentration

ADR – automobile cargo transportation according to [European Agreement concerning the International Carriage of Dangerous Goods by Road](#)

RID – International Carriage of Dangerous Goods by Rail

ADN – [European Agreement concerning Carriage of Dangerous Goods by Inland Waterways](#)

IMDG – International Maritime Dangerous Goods Code

IATA – [International Air Transport Association](#)

IMO - International Maritime Dangerous Goods Code developed and supported by International Maritime Organization

SU – sector of use

PROC –process category

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.