



SAFETY DATA SHEET
according to 1907/2006/EC, Article 31, Annex II as amended

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Gazpromneft Reductor F Synth-320

Revision 1
Revision date 25.04.2018

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY	
1.1. Product Identifier	
Product name	Gazpromneft Reductor F Synth-320
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Description	Industrial gear oil
1.3. Details of the supplier of the safety data sheet	“Gazpromneft – lubricants”, Ltd, 14/3 Krzhizhanovskogo str. 117218, Moscow- Russia. Lubricants@gazprom-neft.ru Tel. +7 495 642-99-69 (between 9 AM and 6 PM Moscow time). Fax +7 495 921-48-63
1.4. Emergency telephone number	1-760-476-3962 (America) 1-760-476-3961 (Europe, Middle East&Africa) 1-760-476-3960 (Asia Pacific): Global Response Access Code: 333497
2. HAZARDS IDENTIFICATION	
2.1. Classification of the substance or mixture	
Regulation (EC) No 1272/2008 (CLP):	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP)
2.2. Label elements:	
Regulation (EC) No 1272/2008 (CLP):	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP). Special Provisions: EUH210: Safety data sheet available on request. Contains: Long-chain alkyl amine. May produce an allergic reaction.
Adverse physicochemical, human health and environmental effects:	No other hazards
Ingredient(s) with unknown acute toxicity:	None
2.3 Other hazards	
	No Significant Hazard
Further information	
	This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.
3. COMPOSITION/INFORMATION ON INGREDIENTS	
3.1 Substances	
	Not applicable: this product is regulated as a mixture.

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3.2 Mixtures (EC) No 1272/2008

Chemical Name	CAS No	EC No	Reach Registration Number	Conc. (%w/w)	Classification
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Base oil – unspecified	72623-87-1	276-738-4	01-2119474889-13-0000	50-60	DECLL(*)
Long-chain alkyl amine	68955-53-3	273-279-1	01-2119456798-18-	0.1-1	Acute Tox. 4, H302; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; STOT SE 3, H335
Alkoxylated long-chain alkanol borate	Proprietary		**	0.1-1	Skin Irrit. 2, H315; Eye Irrit. 2, H318
Alkyl amine	Proprietary		**	< 0.02	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 4, H332; Skin Corr. 1A, H314; Eye Dam. 1, H318; STOT SE 3, H335; Aquatic Acute 1, H400; Flam. Liq. 3, H226; Aquatic Chronic 2, H411

(*)DECLL Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008.

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

** If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, the registration date has not yet come due or this information is proprietary.

Description

	All base oils contained in this product have a value of < 3% w DMSO extract according to IP 346/92.
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Further information

	Full text for all Hazard statements, mentioned in this section, are displayed in Section 16.
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4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of inhalation:	Remove casualty to fresh air and keep warm and at rest.
In case of eye contact:	Wash immediately with water.
In case of skin contact:	Wash with plenty of water and soap.
In case of ingestion:	Do not induce vomiting, get medical attention showing the SDS and label hazardous.

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

	No further relevant information available.
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4.3. Indication of any immediate medical attention and special treatment needed

	Seek medical attention if irritation or symptoms persist
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5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media	Use extinguishing media appropriate to the surrounding fire conditions (carbon dioxide (CO ₂); dry chemical; foam; sand; water spray). Extinguishing media which must not be used for safety reasons: none in particular.
5.2. Special hazards arising from the substance or mixture	Burning produces irritating, toxic and obnoxious fumes. Combustion products highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide and unidentified organic compounds will be evolved when this material undergoes combustion.

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5.3. Advice for firefighters	Wear suitable respiratory equipment when necessary. Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
6. ACCIDENTAL RELEASE MEASURES	
6.1. Personal precautions, protective equipment and emergency procedures	Eliminate all sources of ignition in vicinity of spilled material. Ensure adequate ventilation of the working area. Surfaces contaminated with the product will become slippery. Wear personal protection equipment. See protective measures under point 7 and 8.
6.2. Environmental precautions	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand.
6.3. Methods and material for containment and cleaning up	Use appropriate techniques such as applying noncombustible absorbent materials or pumping. Sweep up. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4. Reference to other sections	See also section 8 and 13
7. HANDLING AND STORAGE	
7.1. Precautions for safe handling	Avoid contact with skin and eyes, inhalation of vapors and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.
7.2. Conditions for safe storage, including any incompatibilities	Keep in a cool, dry, well-ventilated area. Keep containers tightly closed. Stored in correctly labeled containers.
7.3. Specific end use(s)	No further relevant information available.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1. Control parameters	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Base oil – unspecified	Oil mist: 5 mg/m ³ (8 h) 5 mg/m ³ , TWA PEL (OSHA) 5 mg/m ³ , TLV-TWA (ACGIH) 10 mg/m ³ , TLV-STEL (ACGIH)
8.2. Exposure controls	
8.2.1. Appropriate engineering controls	Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation or adequate ventilation should be used at points where dust, mist, vapors or gases can escape into the room air.
8.2.2. Individual protection measures:	Wear protective clothing. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.
Eye/face protection	Not needed for normal use. Anyway, operate according good working practices. In case of splashing, wear: approved safety goggles.

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Skin protection-Hand protection	Protection for skin: Use nitrile or neoprene gloves. Long sleeve shirt is recommended. Wear a chemically protective when contact with material may occur. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Launder contaminated clothing before reuse. Protection for hands: Not needed for normal use.
Respiratory protection	Use in ventilated area. Use respirator with a combination organic vapor and high efficiency filter cartridge just if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygienic and Technical measures	Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Homogenous, viscous liquid
Odour	Characteristic
pH	Not applicable
Pour point	< - 32 °C
Initial boiling point and boiling range	Not applicable
Flash point	>200 °C (Cleveland Open Cup, ASTM D 92)
Evaporation rate	Not applicable
Upper/lower flammability	Not data available
Vapour density	Not applicable
Vapour pressure	<0.01 kPa
Density	Typ. 889 kg/sm ³ at 15 °C
Solubility in water	Insoluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not data available
Decomposition temperature	Not applicable
Viscosity (at 40 °C)	288,0-352,0 mm ² /s (ASTM D 445)
Explosive properties	Not applicable
Oxidizing properties	Not determined
Volatile Organic compounds	Not applicable

Other information	
Miscibility	Not applicable
Conductivity	Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity	This product has no significant hazards with respect to reactivity. Stable under normal conditions. Carefully review all information provided in sections 10.2 - 10.6.
10.2. Chemical stability	Material is normally stable at room temperature and pressure. See Section 7 for further details.
10.3. Passivity of hazardous reactions	Will not occur. Stable under normal conditions.
10.4. Conditions to avoid	Do not expose to excessive heat, ignition sources, or oxidizing materials. High temperatures. Contact with strong oxidizers. Contact with strong caustic agents.
10.5. Incompatible materials	Strong oxidizing agents.

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10.6. Hazardous decomposition products	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Other potential decomposition products: sulfur acids.
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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	
Acute Toxicity	There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Base oil-unspecified	LD ₅₀ /oral/rat > 5000 mg/kg LD ₅₀ /dermal/rabbit > 2000 mg/kg LC ₅₀ /inhalation/4h/rat = > 5,53 mg/L
Acute Toxicity of long-chain alkyl amine	LC ₅₀ Inhalation Vapor Rat - Female 1.19 mg/l 4 hours LD ₅₀ Dermal Rat 251 mg/kg LD ₅₀ Oral Rat 612 mg/kg
Acute Toxicity of Alkyl amine	LC ₅₀ Inhalation Dusts and mists Rat 1.6 mg/l 4 hours LD ₅₀ Dermal Rabbit 200 to 2000 mg/kg LD ₅₀ Oral Rat 200 to 500 mg/kg
Skin corrosion/irritation	Avoid direct contact. Repeated or prolonged skin contact may cause irritation. Contact with heated product may cause thermal burns. Based on data from components or similar materials.
Serious eye damage /irritation	Vapors may cause eye damage/irritation. Evaluation is based on data from components or similar materials.
Respiratory Irritation	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials.
Respiratory or skin sensitization	Skin: Contains: long-chain alkyl amine. May produce an allergic reaction. Products have not been tested. Evaluation has been made through data of components. Respiratory: No data available to indicate product or components may be respiratory sensitizers.
Carcinogenicity	The product is not carcinogenic. Evaluation has been made through data of components. Base oils passed the test IP 346 (DMSO extractable compounds less than 3%) (Note H, L).
Germ cell mutagenicity	Not Applicable
Reproductive toxicity	Not Applicable
STOT-single exposure	Not Applicable
STOT-repeated exposure	Not Applicable
Aspiration hazard	Not Applicable

12. ECOLOGICAL INFORMATION

12.1. Toxicity	Adopt good working practices, so that the product is not released into the environment.
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List of components with eco-toxicological properties

Quantity	Component	Ident. Numb	Ecotox Infos.
50-60 %	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Base oil – unspecified	CAS:72623-87-1 EC:276-738-4	Acute aquatic toxicity: fish: LL ₅₀ /96h > 100 mg/L; NOEL/96h ≥ 100 mg/L (OECD 203). Crustacean: EL ₅₀ /24-48h; NOEL/48-96h; LL ₅₀ /24-96h > 1000 mg/L (OECD 202). Algae: NOEL/72h ≥ 100 mg/L (OECD 201) Chronic aquatic toxicity: crustacean: NOEL/21d = 10 mg/L (OECD 211) *Very low toxicity.

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Quantity	Component	Ident. Numb	Ecotox Infos.
0.1-1%	Long-chain alkenyl amine	CAS: 68955-53-3 EC: 273-279-1	EC ₅₀ 0.03 mg/l Algae 96 hours EC ₅₀ 0.011 mg/l Daphnia 48 hours LC ₅₀ 0.11 mg/l Fish 96 hours
< 0.02 %	Alkyl amine	Proprietary	Chronic EC ₁₀ 0.07 mg/l Algae

12.2. Persistence and degradability	No date is available on this product. Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Base oil – unspecified Not readily degradable (OECD 301 B).
12.3. Bio accumulative potential	No date is available on this product.
12.4. Mobility in soil	Product floats on water (insoluble) and can entrap small organisms. The product could easily disperse in soil. Products have not been tested. Evaluation has been made through data of components.
12.5. Results of PBT and vPvB assessment	No PBT Ingredients are present.
12.6. Other adverse effects	No components with environmental hazard properties.
13. DISPOSAL CONSIDERATIONS	
13.1. Waste treatment methods	
Disposal methods	Recover if possible. In so doing, comply with the local and national regulations currently in force.
Disposal of packaging	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.
Further information	For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
14. TRANSPORT INFORMATION	
Not classified as dangerous in the meaning of transport regulations.	
14.1. UN number	Not applicable.
14.2. UN proper shipping name	Not applicable.
14.3. Transport hazard class(es)	Not applicable.
14.4. Packing group	Not applicable.
14.5. Environmental hazards	Marine pollutant: No / Environmental Pollutant: No
14.6. Special precautions for user	Not applicable.
ADR/RID	The product is not classified as dangerous for carriage.
IMDG	The product is not classified as dangerous for carriage.
IATA	The product is not classified as dangerous for carriage.
15. REGULATORY INFORMATION	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Dir. 2006/8/EC Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP)

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	<p>Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) 2015/830 Provisions related to directive EU 2012/18 (Seveso III): German Water Hazard Class. N.A. Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: None</p>
Chemical safety assessment	No data available on this product.
16. OTHER INFORMATION	
Text of Hazard statements in Section 3	<p>H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. Code Hazard class and hazard category Description 2.6/3 Flam. Liq. 3 Flammable liquid, Category 3 3.1/2/Inhal Acute Tox. 2 Acute toxicity (inhalation), Category 2 3.1/3/Dermal Acute Tox. 3 Acute toxicity (dermal), Category 3 3.1/3/Oral Acute Tox. 3 Acute toxicity (oral), Category 3 3.1/4/Inhal Acute Tox. 4 Acute toxicity (inhalation), Category 4 3.1/4/Oral Acute Tox. 4 Acute toxicity (oral), Category 4 3.10/1 Asp. Tox. 1 Aspiration hazard, Category 1 3.2/1A Skin Corr. 1A Skin corrosion, Category 1A 3.2/1B Skin Corr. 1B Skin corrosion, Category 1B 3.2/2 Skin Irrit. 2 Skin irritation, Category 2 3.3/1 Eye Dam. 1 Serious eye damage, Category 1 3.3/2 Eye Irrit. 2 Eye irritation, Category 2 3.4.2/1 Skin Sens. 1 Skin Sensitisation, Category 1 3.8/3 STOT SE 3 Specific target organ toxicity — single exposure, Category 3 4.1/A1 Aquatic Acute 1 Acute aquatic hazard, category 1 4.1/C1 Aquatic Chronic 1 Chronic (long term) aquatic hazard, category 1 4.1/C2 Aquatic Chronic 2 Chronic (long term) aquatic hazard, category 2 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. CAS: Chemical Abstracts Service (division of the American Chemical Society). CLP: Classification, Labeling, Packaging.</p>

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Legend to abbreviations and acronyms used in the safety data sheet:

DMSO: Dimethyl sulfoxide.
EC₅₀: Half Maximal Effective Concentration.
EINECS: European Inventory of Existing Commercial Chemical Substances.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
LD₅₀: Lethal Dose to 50 % of a test population.
LC₅₀: Lethal Concentration to 50 % of a test population.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
WEL: Workplace Exposure Limit.

Classification and procedure used to derived the classification for mixture according to Regulation EC 1272/2006 (CLP)

Classification according to Regulation EC 1272/2006 (CLP)	Classification procedure
The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).	Calculation method.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Revision 1

This document differs from the previous version in the following areas:

1. Identification of the substance/preparation and the company
3. Composition/information on ingredients
4. First aid measures
8. Exposure control/personal protection
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
16. Other information