SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

ГАЗПРОМНЕФТЬ АНТИФРИЗ SF12+ 40
GAZPROMNEFT ANTIFREEZE SF12+ 40

Revision 0
Revision date 01.02.2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1. Product Identifier

Product name	ГАЗПРОМНЕФТЬ АНТИФРИЗ SF12+ 40 GAZPROMNEFT ANTIFREEZE SF12+ 40

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

Description	Ready for use antifreeze in the cooling systems of all types of liquid-cooled automotive combustion engines.
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):	Acute Tox. 4 Harmful if swallowed. STOT RE 2 May cause damage to organs through prolonged or repeated exposure
Adverse physicochemical, human health and environmental effects:	No other hazards.

2.2. Label elements:

Regulation (EC) No 1272/2008 (CLP):	 **Warning** H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure . P264 Wash hand thoroughly after handling. P270 Do no eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P501.A Dispose of contents/container in accordance with applicable regulations. Contains: ethylene glycol

Regulation (EC) No 1272/2008 (CLP):	
Ingredient(s) with unknown acute toxicity:	None
Special provisions according to Annex XVII of REACH and subsequent amendments:	None

2.3 Other hazards

	No other hazards. No PBT/vPvP ingredients are present.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

	Not applicable: this product is regulated as a mixture.

3.2 Mixtures (EC) No 1272/2008

Hazardous components within the meaning of the CLP regulation and related classification:

Chemical Name	Index.No	CAS No	EC No	Reach Registration Number	Conc. %w/w	Classification
ethyleneglycol	603-027-00-1	107-21-1	203-473-3	01-2119456816-28-	40-50	Acute Tox. 4, H302 STOT RE 2, H373
potassium 2-ethylhexonoate	-	221-625-7	-	-	0,1-1,0	Repr. 2, H361

Further information

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

4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:	Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:	Wash immediately with water.
In case of Ingestion:	Give nothing to eat or drink. In case of accident or unwellness, seek medical advice immediately
In case of Inhalation:	Remove casualty to fresh air and keep warm and at rest.

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

Inhalation	No further relevant information available
Eye contact	No further relevant information available
Skin contact	No further relevant information available.
Ingestion	**Harmful if swallowed.** When ingested early symptoms mimic alcohol inebriation and are followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypokalemic tetany, and severe metabolic acidosis.

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

	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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	Do not inhale explosion and combustion gases. Burning produces heavy smoke.
5.3. Advice for firefighters	Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	Wear personal protection equipment. Remove persons to safety. 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	Suitable material for taking up: absorbing material, organic, sand Wash 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, inhaltion of vapours and mists. Exercise the greatest care when handling or opening the container. 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. Contamined 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	Incompatible materials: None in particular. Instructions as regards storage premises: Adequately ventilated premises.
7.3. Specific end use(s)	No data is available on this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

List of components with OEL value

Component	OEL Type	Long Term mg/m³	Long Term ppm	Short Term mg/m³	Short Term ppm
Ethyleneglycol	EU	52.000	20.000	104.000	40.000

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	Safety Glasses.
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:*** Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
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	Red liquid
Odour	Mild
pH	7,0-9,0
Freezing point	< minus 36 °C
Initial boiling point and boiling range	>108 °C
Flash point	>120 °C (Cleveland Closed Cup, ASTMD 93)
Evaporation rate	No data available
Upper/lower flammability	112 °C /124 °C
Vapour density	Not applicable
Vapour pressure	No data available
Density	1,065-1,077 (at 20 °C)
Solubility	Soluble in water.
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	> 380 °C
Decomposition temperature	Not applicable
Viscosity	No data available
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
10.2. Chemical stability	Stable under normal conditions (at room temperature and pressure). Will not decompose if stored and used as recommended.
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. Avoid contact with strong caustic agents.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	Burning produces irritating, toxic and obnoxious fumes.

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:

Acute toxicity of ethyleneglycol	LD_{50} Skin Mouse > 3500 mg/kg LD_{50} Oral Rat = 7712 mg/kg LC_{50} Inhalation Rat > 2.5 mg/l

If not differently specified, the information required in Regulation (EU) 2015/830 listed below must be considered as N.A.

a) acute toxicity
b) skin corrosion/irritation
c) serious eye damage/irritation
d) respiratory or skin sensitisation
e) germ cell mutagenicity
f) carcinogenicity
g) reproductive toxicity
h) STOT-single exposure
i) STOT-repeated exposure
j) aspiration hazard

Carcinogenicity	The product is not carcinogenic. Evaluation has been made through data of components.
STOT-repeated exposure	Products have not been tested. Evaluation has been made through data of components.
Aspiration hazard	Not considered an aspiration hazard.

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
40-50 %	Ethyleneglycol	CAS:107-21-1	Short-term toxicity testing on fish: LC_{50} (96 h): 72860 mg/L Long-term toxicity to fish : NOEC (7 d): 15380 mg/L Short-term toxicity to aquatic invertebrates (Daphnia Magna) EC_{50} (48 h): > 100 mg/L EC_{50}(3,6,24 h) (48 h): > 100 mg/L Algae: EC_{50} (96 h): 6500-13000 mg/L

Conclusion/Summary: Based on available data, the classification criteria are not met.

12.2. Persistence and degradability	The product has not been tested. No date is available on this product.
12.3. Bio accumulative potential	No date is available on this product.
12.4. Mobility in soil	Products have not been tested.
12.5. Results of PBT and vPvB assessment	No PBT ingredients are present.
12.6. Other adverse effects	No Components with environmental hazard properties found.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal methods	Dispose of in compliance with all local and national regulations. Contact a licensed waste disposal company.
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	ADR-Shipping Name: not applicable. IATA-Technical name: not applicable. IMDG-Technical name: not applicable.
14.3. Transport hazard class(es)	ADR-Class: not applicable. IATA-Class: not applicable. IMDG-Class: not applicable.
14.4. Packing group	Not applicable.
14.5. Environmental hazards	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.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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15. REGULATORY INFORMATION	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances) Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations) 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. 618/2012 (ATP 3 CLP) 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. NWG: Not hazardous for water 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: 3 Restrictions related to the substances contained: None
Chemical safety assessment	No data available on this product.
16. OTHER INFORMATION	
Text of Hazard statements in Section 3	H302 Harmful if swallowed. H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure . Code Hazard class and hazard category Description 3.1/4/Oral Acute Tox. 4 Acute toxicity (oral), Category 4 3.7/2 Repr. 2 Reproductive toxicity, Category 2 3.9/2 STOT RE 2 Specific target organ toxicity — repeated exposure, Category 2
Legend to abbreviations and acronyms used in the safety data sheet:	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 ATE: Acute Toxicity Estimate BCF: Biological Concentration Factor CAS: Chemical Abstracts Service (division of the American Chemical Society). CLP: Classification, Labeling, Packaging. CMR: Carcinogenic, Mutagenic and Reprotoxic

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Legend to abbreviations and acronyms used in the safety data sheet:	DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level. DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC_{50}: Half Maximal Effective Concentration ECHA: European Chemicals Agency 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). IC_{50}: half maximal inhibitory concentration IMDG: International Maritime Code for Dangerous Goods. LC_{50}: Lethal concentration, for 50 percent of test population. LD_{50}: Lethal dose, for 50 percent of test population. LDLo: Leathal Dose Low OSHA: Occupational Safety and Health Administration. PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration. RID: Regulation Concerning the International Transport of Dangerous Goods by Rail. STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. TLV: Threshold Limiting Value. TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard). vPvB: Very Persistent, Very Bioaccumulative.

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
Acute Tox. 4 Harmful if swallowed. STOT RE 2 May cause damage to organs through prolonged or repeated exposure	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 0	New version