

SAFETY DATA SHEET

Газпромнефть Антифриз 40

Revision
3
Revision date
24.12.2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Trade name	Gazpromneft Antifreeze 40
Trade code	N.A.UFI: PPF0-V0QD-700J-5GQ4

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

1.3. Details of the supplier of the safety data sheet

Manufacturer	"Gazpromneft - lubricants" LTD, 125A, Profsoyuznaya str., Moscow, 117647, Russia. Email: Lubricants@gazprom-neft.ru Tel.: +7 495 642-99-69 (between 9 AM and 6 PM Moscow time) Fax: +7 495 921-48-63
Supplier	"Deny Trade" LTD, Office: Stara Zagora 6000, 92 Hristo Botev Str., 4th floor Warehouse: Zagora 6000, Kolyo Ganchev district, Agricultural aviation Tel./Fax: 042 606 899 service@maslagaz.com

1.4. Emergency telephone


National emergency telephone	112
National Toxicological Information Center, MHAT and Emergency Medicine "N. I. Pirogov"	Emergency telephone / fax: +359 2 9154 409 Email: poison_centre@mail.orbitel.bg http://www.pirogov.bg

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Further information	For the full text of the hazard statements and EU hazard statements: see SECTION 16
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2.2. Label elements

Hazard pictograms	
Signal word	Warning
Hazard statements	Acute Tox. 4 Harmful if swallowed. STOT RE 2 May cause damage to organs through prolonged or repeated exposure. H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell.P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container in accordance with applicable regulations. Contains ETHANE-1,2-DIOL SODIUM NITRITE
Precautionary statements	No other hazards
2.3. Other hazards	
Other hazards	No PBT, vPvB or endocrine disruptor substances. present in concentration $\geq 0.1\%$.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Substances	Not applicable
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3.2. Mixtures

CAS No.	EC No.	Index No.	REACH Registration No.	% [weight]	Substance name	Classification according to Regulation (EC) No 1278/2008 (CLP)
107-21-1	203-473-3	603-027-00-1	01-2119456816-28-0025	50-60	ETHANE-1,2-DIOL	Acute Tox. 4, H302; STOT RE 2, H373
				40-50	H2O	
7632-00-0	231-555-9	007-010-00-4	01-2119471836-27-XXXX	0.3-0.5	НАТРИЕВ НИТРИТ	Acute Tox. 3, H301; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Ox. Sol. 3, H272
1330-43-4	215-540-4	005-011-00-4	N.A	0.1-0.25	DISODIUM TETRABORATE, ANHYDROUS	Repr. 1B, H360 Specific Concentration Limits: C $\geq 4.5\%$; Repr. 1B H360FD
10043-35-3				< 0.02	BORIC ACID	

4. FIRST AID MEASURES

4.1. Description of first aid measures

Following 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.
Following eye contact	Wash immediately with water.
Following ingestion	Give nothing to eat or drink.

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

Inhalation acute effects	N.A. Not known
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4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
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5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Water. Carbon dioxide (CO ₂).
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5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Do not inhale explosion and combustion gases. Burning produces heavy smoke.
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5.3. Advice for firefighters

Special precautions for fire-fighters	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.
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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment for non-emergency personnel	Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.
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6.2. Environmental precautions

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 gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand
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6.3. Methods and material for containment and cleaning up

For containment	Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.
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6.4. Reference to other sections

Reference to other sections	See also section 8 and 13.
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7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Protective measures	Avoid contact with skin and eyes, inhalation of vapours 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.
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7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:	None in particular.
Further information on storage conditions	Adequately ventilated premises.

7.3. Specific end use(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

List of components with OEL value

Component	OEL Type	Long Term mg/m ³	Long Term ppm	Short Term mg/m ³	Short Term ppm	Behaviour	Note
ETHANE-1,2-DIOL	ACGIH	100.000					aerosol
DISODIUM TETRABORATE, ANHYDROUS	ACGIH	2		6			only A4

Predicted No Effect Concentration (PNEC) values

Component	CAS No.	PNEC limit	Exposure Route	Exposure Frequency	Remark
SODIUM NITRITE	7632-00-0	0.005 mg/l	Fresh Water		
		0.006 mg/l	Marine water		
		21.000 mg/l	Microorganisms in sewage treatments		
		0.019 mg/kg	Freshwater sediments		
		0.000 mg/kg	Soil (agricultural)		

Derived No Effect Level (DNEL)

Component	CAS No.	Worker Industry	Worker Professional	Consumers	Exposure Route	Exposure Frequency	Remark
SODIUM NITRITE	7632-00-0		2.000 mg/m ³		Human Inhalation		Short Term, systemic effects
			2.000 mg/m ³		Human Inhalation		Short Term, systemic effects

8.2. Exposure controls

Substance/mixture related measures to prevent exposure during identified uses	Ensure replacement ventilation or other ventilation systems to maintain concentrations of substances conveyed by air below their respective occupational exposure limits. All activities involving chemicals must be assessed for their health risks in order to ensure that the exposure is adequately monitored. Wear protective clothing. Personal protective equipment must conform to the appropriate standards, suitable for specific use and maintained in good condition.
Eye and face protection	Safety Glasses.
Skin protection	Use Nitrile or neoprene gloves. Long-sleeved garments are recommended. Wear protection against chemical agents when contact with the material is foreseen. Use neoprene or nitrile boots if necessary to avoid contaminating the shoes. Wash contaminated clothes before reuse.
Hand protection	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 to enter narrow spaces, in poorly ventilated areas and to clean areas where large quantities of product have been spilled.
Organisational measures to prevent exposure	Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product.
Technical measures to prevent exposure	N.A.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Colour	red
Odour	Petroleum
Pour point	< -36 °C
Boiling point or initial boiling point and boiling range	N.A.
Flammability	N.A.
Lower and upper explosion limit	N.A.
Flash point	>108 °C (226 °F) (ASTM D92 (Cleveland Open Cup))
Auto-ignition temperature	N.A.
Decomposition temperature	N.A.
pH	8.50-10.00
Kinematic viscosity	N.A.
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	N.A.
Vapour pressure	N.A.
Density and/or relative density	1,065-1,077 kg/m3 (ASTM D4052 @ 15°C)
Relative vapour density	N.A.
Oxidizing properties	He e определена.
Volatile Organic compounds - VOCs	

9.2. Other information

Evaporation rate	N.A.
Miscibility	N.A.
Conductivity	N.A.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity	Carefully review all information provided in sections 10.2 - 10.6.
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10.2. Chemical stability

Chemical stability	Material is normally stable at room temperature and pressure. See Section 7 for further details.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not occur.
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10.4. Conditions to avoid

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.
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10.5. Incompatible materials

Incompatible materials	Strong oxidizing agents.
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10.6. Hazardous decomposition products

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 hazard classes as defined in Regulation (EC) No. 1272/2008

Products have not been tested. Evaluation has been made through data of components.

Acute toxicity	The product is classified: Acute Tox. 4(H302)
Skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
Carcinogenicity	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified Based on available data, the classification criteria are not met
Summary of evaluation of the CMR properties	Not classified Based on available data, the classification criteria are not met
STOT-single exposure	Not classified Based on available data, the classification criteria are not met
STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
Aspiration hazard	Not classified Based on available data, the classification criteria are not met
Toxicological information of the mixture	Not classified Based on available data, the classification criteria are not met
Toxicological information on main components of the mixture	Not classified Based on available data, the classification criteria are not met
Toxicological information on main components of the mixture	

12. ECOLOGICAL INFORMATION

12.1. Toxicity		
Acute (short-term) toxicity		Adopt good working practices, so that the product is not released into the environment.
List of components with eco-toxicological properties		
Component	Identification number	Ecotoxicological information
ETHANE-1,2-DIOL	CAS: 107-21-1 EINECS: 203-473-3 INDEX: 603-027-00-1	a) Aquatic acute toxicity : EC50 Daphnia Daphnia Magna > 10000.00000 mg/L 48h - Based on available data, the classification criteria are not met a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata >6500.00000 mg/L 96h - Based on available data, the classification criteria are not met a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (Rainbow trout) = 18500.00000 mg/L 96h - Based on available data, the classification criteria are not met
12.2. Persistence and degradability		
12.3. Bioaccumulative potential		
Partition coefficient n-octanol /water (log Kow)		ETHANEDIOL Kow - Partition coefficient -1.340
12.4. Mobility in soil		
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessment		Не присъстват PBT съставки
12.6. Endocrine disrupting properties		
12.7. Other adverse effects		
12.8. Additional information		
13. DISPOSAL CONSIDERATIONS		
13.1. Waste treatment methods		
14. TRANSPORT INFORMATION		
14.1. UN number or ID number		
UN number or ID number		N.A
14.2. UN proper shipping name		
UN proper shipping name		N.A
14.3. Transport hazard class(es)		
Transport hazard class(es)		N.A
14.4. Packing group		
Packing group		N.A
14.5. Environmental hazards		
Environmental hazards		N.A
14.6. Special precautions for user		
Special precautions for user		N.A
14.7. Maritime transport in bulk according to IMO instruments		
Maritime transport in bulk according to IMO instruments		N.A
15. REGULATORY INFORMATION		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU regulations	Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) 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) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2020/878	
Restrictions on use	Restrictions related to the product: 3 Restrictions related to the substances contained: 30	
Restrictions of occupation	Component: DISODIUM TETRABORATE, ANHYDROUS Ident. Numb.: CAS: 1330-43-4 EINECS: 215-540-4 Index: 005-011-00-4Quantity: 0.1-0.25 % SVHC Material Properties: Repr. Cat. 3.7/1B;	
Wassergefährdungsklasse (water hazard class)		Class 3: extremely hazardous.
15.2. Chemical Safety Assessment		
Chemical Safety Assessment		No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
16. OTHER INFORMATION		

Other information	<p> H272 May intensify fire; oxidiser. H301 Toxic if swallowed. H302 Harmful if swallowed. H319 Causes serious eye irritation. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H373May cause damage to organs through prolonged or repeated exposure. H400Very toxic to aquatic life. Code Hazard class and hazard category Description 2.14/3 Ox. Sol. 3 Oxidising solid, Category 3 3.1/3 /Oral Acute Tox. 3 Acute toxicity (oral), Category 3 3.1/4/ Oral Acute Tox. 4 Acute toxicity (oral), Category 4 3.3/2 Eye Irrit. 2 Eye irritation, Category 2 3.7/1B Repr. 1B Reproductive toxicity, Category 1B 3.9/2 STOT RE 2 Specific target organ toxicity — repeated exposure, Category 2 4.1/A1 Aquatic Acute 1 Acute aquatic hazard, category 1 Classification according to Regulation (EC) Nr. 1272/2008 Classification procedure 3.1/4/Oral Calculation method 3.9/2 Calculation method This document was prepared by a competent person who has received appropriate training. Main bibliographic sources: ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated andconstitutes no guarantee of particular quality.It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.This MSDS cancels and replaces any preceding release. Legend to abbreviations and acronyms used in the safety data sheet: ACGIH: American Conference of Governmental Industrial Hygienists 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 ATEmix: Acute toxicity Estimate (Mixtures) BCF: Biological Concentration Factor BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand CAS: Chemical Abstracts Service (division of the American Chemical Society). CAV: Poison Center CE: European Community CLP: Classification, Labeling, Packaging. CMR: Carcinogenic, Mutagenic and Reprotoxic COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment CSR: Chemical Safety Report DMEL: Derived Minimal Effect Level DNEL: Derived No Effect Level. DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration ECHA: European Chemicals Agency EINECS: European Inventory of Existing Commercial Chemical Substances. ES: Exposure Scenario GefStoffVO: Ordinance on Hazardous Substances, Germany. GHS: Globally Harmonized System of Classification and Labeling of Chemicals. IARC: International Agency for Research on Cancer IATA: International Air Transport Association. IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA). IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization. ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO). IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients. IRCCS: Scientific Institute for Research, Hospitalization and Health Care KAFH: Keep away from heat KSt: Explosion coefficient. LC50: Lethal concentration, for 50 percent of test population. LD50: Lethal dose, for 50 percent of test population. LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable N/D: Not defined/ Not available NA: Not available NIOSH: National Institute for Occupational Safety and Health NOAEL: No Observed Adverse Effect Level OSHA: Occupational Safety and Health Administration. PBT: Persistent, Bioaccumulative and Toxic PGK: Packaging Instruction PNEC: Predicted No Effect Concentration. PSG: Passengers 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. WGK: German Water Hazard Class. Paragraphs modified from the previous revision: - 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING - 2. HAZARDS IDENTIFICATION - 3. COMPOSITION/INFORMATION ON INGREDIENTS - 4. FIRST AID MEASURES - 5. FIRE-FIGHTING MEASURES - 6. ACCIDENTAL RELEASE MEASURES - 7. HANDLING AND STORAGE - 8. EXPOSURE CONTROLS/PERSONAL PROTECTION - 9. PHYSICAL AND CHEMICAL PROPERTIES - 10. STABILITY AND REACTIVITY - 11. TOXICOLOGICAL INFORMATION - 12. ECOLOGICAL INFORMATION - 13. DISPOSAL CONSIDERATIONS - 14. TRANSPORT INFORMATION - 15. REGULATORY INFORMATION - 16. OTHER INFORMATION </p>
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