

SAFETY DATA SHEET

Gazpromneft Ecogas 10W-40**Revision****2****Revision date****1.07.2023**

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1. Product Identifier	
Trade name	Gazpromneft Ecogas 10W-40
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	Engine oil
Uses advised against	Should not be used for any purposes other than recommended.
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
2.2. Label elements	
Labeling according to Regulation (EC) No. 1272/2008 (CLP)	Aquatic Chronic 3, H412 For the full text of the H-statements see Section 16.
Hazard pictograms	Not applicable.
Signal word	Not applicable.
Hazard statements	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	P102 - Keep out of reach of children. P273 - Avoid release to the environment. P501 - Dispose of contents, container in accordance with local, regional, national and international regulation.
Supplemental Hazard information (EU)	EUH208 - Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.
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
3.2. Mixtures	

CAS No.	EC No.	Index No.	REACH Registration No.	% [weight]	Substance name	Classification according to Regulation (EC) No 1278/2008 (CLP)
64742-65-0	265-169-7	649-474-00-6	01-2119471299-27	30 - 60	Distillates (petroleum), solvent-dewaxed heavy paraffinic	Not classified
64742-56-9	265-159-2	649-469-00-9	01-2119480132-48	0 - 30	Distillates (petroleum), solvent-dewaxed light paraffinic	Asp. Tox. 1, H304
64742-54-7	265-157-1	649-467-00-8	01-2119484627-25	0 - 40	Distillates (petroleum), hydrotreated heavy paraffinic	Asp. Tox. 1, H304
722503-68-6	682-816-2	-	-	≤ 0.5	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	Skin Sens. 1B, H317 Aquatic Chronic 4, H413
121158-58-5	310-154-3	604-092-00-9	01-2119513207-49-0002		Phenol, dodecyl-, branched	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 M=10 Aquatic Chronic 1, H410 M=10
					Distillates (petroleum), solvent-dewaxed heavy paraffinic and Distillates (petroleum), solvent-dewaxed light paraffinic and Distillates (petroleum), hydrotreated heavy paraffinic are not classified as cancerogenic substances as it can be shown that they contain < 3% of dimethylsulfoxide (DMSO) as measured by test method IP 346 (Note L, Annex VI of Regulation (EC) 1272/2008). For the full text of the H-statements see Section 16.	

4. FIRST AID MEASURES

4.1. Description of first aid measures

Following inhalation	Move casualty away from source of exposure. Provide fresh air. If symptoms persist, call a physician. If breathing heavily, irregularly, or not breathing, give artificial respiration (only by skilled, qualified personnel). Make sure respiratory tract passages are free of obstacles at every moment. Seek medical attention promptly.
Following skin contact	Remove contaminated clothing and shoes. Wash place of contact with mild soap and water. If skin irritation or rash occurs, get medical advice. Wash contaminated clothing before reuse. In case of contact with hot products, run cool water over burned area. Do not try to remove by force parts of clothes which get stuck to the exposed person's skin as a consequence of contact with hot products. In this situation, one should seek medical attention.
Following eye contact	Immediately rinse eyes with plenty of running water. When rinsing eyes, hold eyelid apart from eyeball to ensure a thorough rinsing (by forcibly holding the eye wide open with hands). Remove contact lenses, if any, and continue rinsing the eyes for at least 15 minutes. If irritation occurs, consult a physician. Chemical burns must be treated promptly by a physician.
Following ingestion	Get medical attention promptly. Do not wait for the symptoms to occur. Do not induce vomiting, the product contains petroleum distillates which may be fatal if swallowed and enters airways. If vomiting occurs, head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person.

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

Inhalation acute effects	It is unlikely adverse effects will occur if the substance is inhaled at a normal temperature and pressure. When heated evaporates. If inhaled high vapour concentration leads to irritations of the respiratory system, including nose and throat irritation.
Ingestion acute effects	Symptoms are not likely to occur if ingested in small quantities. If large quantities are ingested, nausea, abdominal pain, vomiting will occur.
Skin contact acute effects	May produce an allergic skin reaction depending on the individual skin sensitivity. Contact with heated substance leads to chemical burns.
Eye contact acute effects	No irritation expected. Contact with heated material leads to chemical burns.

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

Notes to physician	The treatment should be carried out based on symptoms present and the patient's clinical state.
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5. FIREFIGHTING MEASURES	
5.1. Extinguishing media	
Suitable extinguishing media	In case of a small, initial fire, use dry chemical powder, sand, soil or carbon-oxide. In case of a large fire, use water mist/spray (only by trained personnel) or foam (only by trained personnel).
Unsuitable extinguishing media	Direct water jet, as it may spread the fire. Avoid simultaneous use of water and foam on the same surface because water will destroy foam
5.2. Special hazards arising from the substance or mixture	
Hazards from the substance or mixture	This product is not classified as flammable. If the burning process is initiated, the product may start burning, whereat a complex mixture of unidentified organic and inorganic compounds and gases may form, such as carbon dioxide and carbon monoxide.
5.3. Advice for firefighters	
Special precautions for fire-fighters	Evacuate people from by fire covered area. Product which is not on fire should be moved to a safe zone, if minimum risk is involved. Use water spray to cool unopened containers which were on fire in the hazard zone. Do not allow water used to cool container to enter drains, surface water and groundwater, or soil. Collect and dispose of it in accordance with the applicable local regulations. The fire-fighters should wear the complete personal protective equipment, including the self-contained breathing apparatus with a whole-face mask functioning on the principle of positive-pressure (SCBA).
6. ACCIDENTAL RELEASE MEASURES	
6.1. Personal precautions, protective equipment and emergency procedures	
Protective equipment for non-emergency personnel	Evacuate people from the accident zone. Avoid direct contact with skin and eyes. Do not inhale oil mist. Use adequate personal protective clothing and equipment (refer to Section 8). If spilt, the product makes the surface slippery. Be careful not to step in the spillage. Remove all sources of ignition and sparking. Smoking is forbidden.
6.2. Environmental precautions	
Environmental precautions	Avoid spreading of spillage, run off and contact with soil, waterways, drains and sewers. Inform the competent authorities in case of contamination of environment (soil, waterways or sewers).
6.3. Methods and material for containment and cleaning up	
For cleaning up	In the cleaning process, do not use sparking tools and equipment. Remove all sources of ignition from the spillage zone. Prevent spreading and run off product by constructing sand and soil barriers. In case of large spillage, collect it using pumps and dispose of it into containers intended for waste disposal. Disposal should be carried out by an authorized operator. In case of small leaks, use soil or some other inert, non-combustible absorbent material to collect spillage. Put the collected spillage into closed containers intended for further disposal. In case of small leaks in closed water systems, prevent spreading by floating barriers or similar equipment, and collect it using specific floating absorbents.
6.4. Reference to other sections	
Reference to other sections	Follow instructions under Section 8 related to personal protection and waste treatment and disposal instructions under section 13.
7. HANDLING AND STORAGE	
7.1. Precautions for safe handling	
Protective measures	In the process of handling, avoid direct skin and eye contact. Use adequate personal protective equipment (for further information, refer to section 8.2). Store and use away from open flame, sparks, heat and other ignition sources. During handling, do not use sparking tools and equipment. Avoid static electricity discharge. Loading should be performed exclusively at prescribed places and into adequate tanks, using functional equipment and devices, by professionally trained and experienced personnel. After finishing the activity, keep in tightly closed containers. Obey occupational safety, fire protection and general hygiene measures. Do not eat, drink, or smoke during handling. Before breaks and after finishing the work, wash the hands thoroughly. Before entering a food service area, take off the contaminated clothing and protective equipment.
7.2. Conditions for safe storage, including any incompatibilities	

Technical measures and storage conditions	Conditions for safe storage, including any incompatibilitiesStore the product in a dry, cold, well ventilated place, protected from direct weather effects. Keep in original, undamaged, closed and labelled packaging. Avoid exposure to direct sunlight, heat sources, open flames, sparks and other sourcesof ignition. Weather conditions may damage the label on the packaging. Store away from incompatible materials (refer to section 10.5.). Keep away from food, drink and animal feed. The plugs of packaging must be tightly closed. Before removing the plugs, dry the upper surface of the barrel and clean it of all contaminants that could get into the product. The recommended storage temperature: 0 – 40 °C.
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7.3. Specific end use(s)

Recommendations	The identified uses of this product are detailed in sub-section 1.2.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

List of components with OEL value

Predicted No Effect Concentration (PNEC) values

Derived No Effect Level (DNEL)

8.2. Exposure controls

Substance/mixture related measures to prevent exposure during identified uses	EU OEL (Europe): TWA: 5 mg/m ³ Bulgaria: TWA: 5 mg/m ³ Czech Republic: TWA: 5 mg/m ³ Greece: TWA: 5 mg/m ³ Hungary: TWA: 5 mg/m ³ Romania: TWA: 5 mg/m ³ Slovakia: TWA: 5 mg/m ³
Technical measures to prevent exposure	Mechanical ventilation and local exhaust systems
Eye and face protection	Wear tightly fitting safety goggles providing adequate protection against sprays of liquid product in the eyes (EN 166).
Skin protection	Wear gloves resistant to chemicals (EN374). The gloves should be periodically inspected and replaced in case of wear and tear, perforation or contamination.
Hand protection	Wash hands, forearms, and face thoroughly when finished working with product, before eating, drinking, smoking, or going to toilet. Wash contaminated clothing before reuse.
Other skin protection	Wear antistatic protective clothing - long sleeve shirts and long trousers. Wear antistatic shoes resistant to chemicals, thermally insulated, if required, according to the EN 340.
Respiratory protection	To prevent irritation of respiratory system, avoid inhalation of vapours. If it is not possible to assess the exposure level reliably or there is a risk of reduced supply of oxygen, use the self-contained breathing apparatus (SCBA). Selection of respiratory protective equipment should be made in accordance with the specific activities, level of exposure and anticipated exposure period.
Organisational measures to prevent exposure	Apply adequate control measures to prevent contact with environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	
Odour	characteristic
Pour point	≤ -30°C (ISO 3016)
Boiling point or initial boiling point and boiling range	not determined
Flammability	not applicable
Lower and upper explosion limit	неприложимо, виж точка 9.2
Flash point	≥215°C, тип. 230°C (EN ISO 2592)
Auto-ignition temperature	not determined
Decomposition temperature	not determined
pH	not applicable
Kinematic viscosity	14.3 mm ² /s at 100°C (ISO 3104) 97.2 mm ² /s at 40°C (ISO 3104)
Solubility	not soluble in water
Partition coefficient n-octanol/water (log value)	not available
Vapour pressure	not determined

Density and/or relative density	not determined
Relative vapour density	873 kg/m ³ при 15°C (ASTM D 4052)
Oxidizing properties	not oxidizing
Nanoforms dispersion stability	N.A.
9.2. Other information	
Formation of explosible dust/air mixtures	not explosive
Evaporation rate	not determined

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Chemical stability	Stable under recommended handling and storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Hazard reactions will not occur under recommended handling and storage conditions.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures, open flame, sparks, and other ignition sources, storing with incompatible substances.
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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	Under regular and recommended conditions of storing and use, the product will not decompose and form hazardous products. In the combustion process, a complex mixture of unidentified organic and inorganic compounds and gases may be formed, such as carbon dioxide and carbon monoxide.
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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	Symptoms related to physical, chemical, and toxicological properties: Characteristic symptoms resulting from exposure of product are specified in section 4.2. Delayed and immediate effects, as well as acute effects as a result of short-term and long-term exposure: Prolonged or repeated exposure may cause an allergic skin reaction.
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	Based on available data the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met. Distillates (petroleum) contained in product have < 3% DMSO extract according to IP 346 test method, due to they are not classified as carcinogenic.
Information on hazard classes as defined in Regulation (EC) No. 1272/2008	The products have not been tested. The evaluation is done using component data.
STOT-repeated exposure	Inhalation, peroral, dermal and eye contact.
Aspiration hazard	Based on available data the classification criteria are not met.
Toxicological information on main components of the mixture	Based on available data the classification criteria are not met.

Toxicological information on main components of the mixture

Component	Toxicity	Information
Distillates (petroleum), solvent dewaxed heavy paraffinic	LD ₅₀ > 5000 mg/kg bw (rat, oral) LC ₅₀ /4h > 5.53 mg/l (rat, by inhalation) LD ₅₀ > 2000 mg/kg bw (rabbit, dermal)	Index No 649-474-00-6 CAS No 64742-65-0 EC No 265-169-7
Distillates (petroleum), solvent dewaxed light paraffinic	LD 50 > 5000 mg/kg bw (rat, oral) LC 50/4h > 5.53 mg/l (rat, by inhalation) LD 50 > 2000 mg/kg bw (rabbit, dermal)	Index No 649-469-00-9 CAS No 64742-65-0 EC No 265-159-2
Distillates (petroleum), hydrotreated heavy paraffinic	LD ₅₀ > 5000 mg/kg bw (rat, oral) LC ₅₀ /4h > 5.53 mg/l (rat, by inhalation) LD ₅₀ > 5000 mg/kg bw (rabbit, dermal)	Index No 649-467-00-8 CAS No 64742-54-7 EC No 265-157-1
Distillates (petroleum), hydrotreated, heavy paraffinic	NOAEL 1000 mg/kg/bw/day (rat, oral, fertility, subchronic, OECD 421) NOAEL 1000 mg/m ³ (rat, dermal, fertility, subchronic, OECD 421) LOAEL 125 mg/kgbw/day (rat, dermal, maternal toxicity, OECD 414) NOAEL ≥2000 mg/kgbw/day (rat, dermal, teratogenicity, OECD 414)	Index No 649-467-00-8 CAS No 64742-54-7 EC No 265-157-1
Phenol, dodecyl-, branched	One-generation study: NOAEL 5 mg/kg/day Two-generation study: NOAEL 15 mg/kg/day	Index No 604-092-00-9 CAS No 121158-58-5 EC No 310-154-3
Distillates (petroleum), hydrotreated, heavy paraffinic	NOAEL 1000 mg/kg bw/day (rabbit, dermal, systemic, subacute, OECD 410) NOAEL > 2000 mg/kg/day (rat, dermal, systemic, subchronic, OECD 411) NOAEC 980 mg/m ³ (rat, inhalation, systemic, subacute, OECD 412)	Index No 649-467-00-8 CAS No 64742-54-7 EC No 265-157-1

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Acute (short-term) toxicity	The mixture is harmful to aquatic life with long lasting effects. The overview of ecotoxicological information related to the substances contained in the product are given in the table below.
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List of components with eco-toxicological properties

Component	Identification number	Ecotoxicological information
Toxicity Distillates (petroleum), solvent dewaxed heavy paraffinic	Index No 649-474-00-6 CAS No 64742-65-0 EC No 265-169-7	LC 50 > 100 mg/l (fish 1) ErC 50 > 100 mg/l (algae) EC 50 > 100 mg/l (other aquatic organisms 1) NOEC > 1 mg/l (chronic crustacea)
Distillates (petroleum), solvent dewaxed light paraf	Index No 649-469-00-9 CAS No 64742-56-9 EC No 265-159-2	LC ₅₀ > 100 mg/l (fish 1) ErC ₅₀ > 100 mg/l (algae) EC ₅₀ > 100 mg/l (other aquatic organisms 1) NOEC > 1 mg/l (chronic crustacea)
Distillates (petroleum), hydrotreated heavy paraffinic	Index No 649-467-00-8 CAS No 64742-56-9 EC No 265-157-1	LL ₅₀ /96h > 100 mg/l (Pimephales promelas) EL ₅₀ /48h > 10000 mg/l (Daphnia magna) NOEL/72h > 100 mg/l (Pseudokirchneriella subcapitata) NOELR/28d ≥ 1000 mg/l (Oncorhynchus mykiss) NOEL/21d ≥ 10 mg/l (Daphnia magna)
Phenol, dodecyl-, branched	Index No 604-092-00-9 CAS No 121158-58-5 EC No 310-154-3	EC ₅₀ /48h 0.037 mg/l (Daphnia magna)

12.2. Persistence and degradability

Biodegradation	No available mixture information. It is assessed as not readily biodegradable because of inherent biodegradability of substances which are base of the mixture.
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Component	Persitence/Degradability	Test	Duration	Value	Notes
Phenol, dodecyl-, branched		OECD TG 301B		7.8%	Index No 604-092-00-9 CAS No 121158-58-5 EC No 310-154-3

12.3. Bioaccumulative potential

Component	Test	Duration	Value	Notes
Distillates (petroleum), solvent dewaxed heavy paraffinic	Log Kow > 6 (literature data, potentially bioaccumulative)			Index No649-474-00-6 CAS No 64742-65-0 EC No 265-169-7
Distillates (petroleum), solvent dewaxed light paraffinic	Log Kow > 6 (literature data, potentially bioaccumulative)			Index No 649-469-00-9 CAS No 64742-56-9 EC No 265-159-2
Distillates (petroleum), hydrotreated heavy paraffinic	Log Kow > 6 (literature data, potentially bioaccumulative)			Index No 649-467-00-8 CAS No 64742-54-7 EC No 265-157-1

12.4. Mobility in soil

Known or predicted distribution to environmental compartments	No data available.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not classified as PBT/vPvB.
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12.6. Endocrine disrupting properties

12.7. Other adverse effects

Other adverse effects	No data available.
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12.8. Additional information

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/Packaging disposal	Where possible avoid waste accumulation or reduce it to minimum. Dispose of unused product in compliance with applicable local regulations. Treat and dispose of contaminated packaging in compliance with applicable local regulations.
Other disposal recommendations	Waste code: 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils (categorization of waste is the responsibility of users)

14. TRANSPORT INFORMATION

14.1. UN number or ID number

UN number or ID number	Not applicable.
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14.2. UN proper shipping name

UN proper shipping name	Not applicable.
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14.3. Transport hazard class(es)

Transport hazard class(es)	Not applicable.
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14.4. Packing group

Packing group	Not applicable.
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14.5. Environmental hazards

Environmental hazards	Not applicable.
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14.6. Special precautions for user

Special precautions for user	The product is not classified as dangerous in accordance with the regulations of dangerous goods transportation: ADR / RID / ADN / IMDG / IATA.
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14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments	Not applicable.
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15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<p>EU regulations</p>	<p>Commision Regulation (EU) No 830/2015 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)</p> <p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006</p> <p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerningTtheRegistration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC</p> <p>Regulation (EC) No 1907/2006, Annex XVII (the substances subject to restriction on marketing and use): none present</p> <p>Regulation (EC) No 1907/2006, Article 59 (the substances on Candidate List): none present</p> <p>Regulation (EC) No 1907/2006, Annex XIV (the substances subject to authorisation): none present</p>
<p>15.2. Chemical Safety Assessment</p>	
<p>Chemical Safety Assessment</p>	<p>No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.</p>
<p>16. OTHER INFORMATION</p>	

Other information

2nd version.

Revision information:

Section 1.3 Address of supplier of the safety data sheet

Section 3.2 Name, Index No, CAS No, EC No of substances in the mixture (product), treat level

Section 11 Name, Index No, CAS No, EC No of substances in the mixture (product)

Section 12 Name, Index No, CAS No, EC No of substances in the mixture (product)

List of abbreviations and acronyms:

Asp. Tox. 1 - Aspiration hazard, Category 1

Eye Dam. 1 - Serious eye damage/eye irritation, Category 1

Skin Sens. 1B - Skin sensitization, Category 1B

Skin Corr. 1C - Skin corrosion/irritation, Category 1C

Repr. 1B - Reproductive toxicity, Category 1B

Aquatic Acute 1 - Hazardous to the aquatic environment, Acute, Category 1

Aquatic Chronic 1 - Hazardous to the aquatic environment, Chronic, Category 1

Aquatic Chronic 3 - Hazardous to the aquatic environment, Chronic, Category 3

Aquatic Chronic 4 - Hazardous to the aquatic environment, Chronic, Category 4

OEL - Occupational Exposure Limit

SCBA - Self Contained Breathing Apparatus

TWA - Time Weighted average (frequent long-term exposure over 8-hour work day)

LD₅₀ - Lethal dose 50 (Lethal dose 50 is a substance dose which is lethal to 50% of tested animals)

bw - Body weight

LC₅₀ - Lethal concentration 50 (Lethal concentration 50 is the concentration which is lethal to 50% of tested animals)

EC₅₀ - Median effective concentration (Median effective concentration means the effective concentration of substance in the environment which produces a specific effect to 50% of tested organisms under a defined set of conditions)

ErC₅₀ - Median Effective Concentration (EC50 (growth rate))

LL₅₀ - Lethal loading rate for 50% of the test population

EL₅₀ - Effective loading rate lethal to 50% of the test population

NOEC - No Observable Effect Concentration (a maximum dose not producing a harmful effect)

NOEL - No Observable Effect Level (a maximum dose not producing a harmful effect)

NOAEL - No Observed (Adverse) Effect Level

NOAEC - No Observed (Adverse) Effect Concentration

Log Kow - partition coefficient n-octanol/water

OECD - Organisation for Economic Co-operation and Development

PBT - Persistent, bioaccumulative and toxic substance

vPvB - Very persistent and very bioaccumulative substance

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

RID - International Rule for Transport of Dangerous Substances by Railway

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG - International Maritime Dangerous Goods

IATA - International Air Transport Association

Basic literature and sources:

Safety Data Sheet of components.

www.echa.europa.eu

List of hazard statements and the associated full text:

H304 - May be fatal if swallowed and enters airways.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H360F - May damage fertility.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H412 - Harmful to aquatic life with long lasting effects.

H413 - May cause long lasting harmful effects to aquatic life.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]:

Calculation method.

Other Information:

The information provided herein is correct to our up-to-date knowledge.

The product must not be used for any purposes other than specified herein. We shall not accept any liability in case of non compliance with this Safety Data Sheet