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SAFETY DATA SHEET

Revised on: 08.07.2016 r. Version: 1.1/EN

[Prepared in compliance with Regulations (EC) No 1907/2006 (REACH), as amended.]

Section 1: Identification of the substance/mixture and identification of the company/undertaking

1.1 Product identifier

Trade name: Rúðuvökvi Skeljungur -18°C

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

Identified use: Cleaner and windscreen car. It has excellent cleaning properties. It removes grease and dirt from the insoluble glass and optical devices of the car. Use at temperatures up to -18ºC.

Use advised against: not specified.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Venol Motor Oil Sp. Zo.o.

Address: ul. Lodowa 107, 93-232 Łódź

Phone/fax: +48 42 649-15-68/+48 42 649-24-93

E-mail address of the person responsible for the safety data sheet: laboratorium@venol.pl

1.4 Emergency phone number

112 (emergency number), 998 (fire brigade), 999 (emergency ambulance service)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 3 H226;

Flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes damage to organs: optic nerve, central nervous system.

2.2 Label elements

Hazard pictogram(s) and signal word

DANGER

Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool
P501	Dispose of the contents / container to properly labeled containers designed selective collection of waste emptied by an authorized company,

2.3 Other hazards

The product contains substances which do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulations.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

CAS number: 64-17-5 EC number: 200-578-6 Index number: 603-001-00-5 Registration number:-	ethanol [1,] Flam. Liq. 2 H225	<30%
CAS number: 78-93-3 EC number: 201-159-0 Index number: –606-002-00-3 Registration number:-	Methyl- ethyl ketone 1,2 Flam. Liq. 2 H225 Eye Irrit. 2 H319, EUH066*,STOT SE 3 H336	<1%

1 – substance with the lowest national permissible occupational exposure values 2 – substance with the lowest Community permissible occupational exposure values * Additional code hazard statement

Full text of R and H statements in Section 16.

Section 4: First aid measures

4.1 Description of first aid measures

Contact with skin: take off the contaminated clothes. Wash contaminated skin with soap and water. In case of disturbing symptoms, call a doctor/physician.

Contact with eyes: rinse open eyes with a slow stream of water for 10-15 minutes with. Avoid strong water – risk of damage to the cornea. Protect the healthy eye, remove contact lenses. In case of disturbing symptoms, call a doctor/physician.

If swallowed: administer 100ml of 40%methyl alcohol (to decrease metabolism of methanol contained in the product). Immediately call a doctor/physician, show the label.

If inhaled: administer fresh air, ensure warmth and peace. In case of disturbing symptoms, call a doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Contact with skin: Possible reddening or cracking of skin in case of frequent or prolonged exposure.

Contact with eyes: reddening, watering, and burning.

If swallowed: nausea, vomiting, impaired balance and coordination, vision disorders or loss of vision, intoxication, impaired speech, loss of consciousness, death.

If inhaled: in the case of high concentration of vapours, the product can cause pains, vertigos, impaired balance and symptoms similar as in the case of swallowing.

4.3 Indication of any immediate medical attention and special treatment needed

Decisions regarding first aid should be made by a doctor after a thorough examination. Specific antidote: ethyl alcohol.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO_2, fire-extinguisher powder, vaporised water, firefighting foam resistant to alcohol.

Unsuitable extinguishing media: dense water stream due to the hazard of spreading fire.

5.2 Special hazards arising from the substance or mixture

As a result of fire, hazardous vapours are formed, such carbon monoxide. Avoid inhaling combustion products: they can threaten the health.

5.3 Advice for firefighters

Use means of collective protection typical for firefighting. Do not stay in the endangered area without proper protective clothing resistant to chemicals and a self-contained breathing apparatus. Flammable liquid and vapours. Containers at risk of fire should be cooled down from a safe distance with vaporised water.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: ensure limited access of outsiders in the vicinity of the spill until completion of appropriate cleaning operations. In the case of large release, isolate the endangered area. Avoid contact with skin and eyes. Do not inhale the vapours. Ensure proper ventilation. Eliminate all sources of ignition, extinguish the open fire; do not smoke. Use personal protection measures.

For emergency responders: ensure that the area of the spill and its results are secured only by experienced personnel. Avoid contact with skin and eyes. Use personal protection measures.

6.2 Environmental measures

Do not release to the sewage system, surface water and ground water. In case of large release of mixture, take measures to avoid spreading in natural environment. Notify appropriate rescue services.

6.3 Methods and materials for containment and cleaning up

Place damaged packaging in a substitute container. Clean up spills using non-flammable, absorbent materials (e.g. sand, soil, diatomaceous earth, vermiculite) and contain in closed containers. The collected material should be treated like waste. Clean and ventilate the contaminated area.

6.4 Reference to other sections

For product disposal considerations - see Section 13. Personal protection measures - see Section 8 of Safety Data Sheet.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance to health and safety at work regulations. Do not eat, drink or smoke in work areas. Avoid contact with eyes and skin. Wash hands before breaks and finishing work. Ensure proper ventilation. Eliminate all sources of ignition – declare no-smoking zones. Do not use sparking tools. Ground the used equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store only in cool places. Do not store with food, food ingredients or animal feed. Avoid direct sunlight, sources of heat and ignition. Do not store with incompatible substances (see Section 10).

7.3 Specific end use(s)

No information on different uses than those specified in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Specification	TLV-TWA	TLV-STEL	TLV-C	DSB
Ethanol [CAS 64-17-5]	1900 mg/m3	-	-	-
Methyl- ethyl ketone	450 mg/m3	900 mg/m3	-	-
Methanol [CAS 67-56-1]	100 mg/m^3	300 mg/m^3	—	6mg/l*

*biological material - urine, analyte – methyl alcohol.
Legal basis: Journal of Laws. 2014, item. 817.

Recommended monitoring procedures

Use procedures to monitor concentration of hazardous substances in the air and procedures of fresh air control in work areas – if they are available and justified in the workstation – in compliance with appropriate Polish or European norms of working conditions in endangered areas and appropriate measuring methodology adapted to working conditions. Mode, type and frequency of examinations and measuring should meet requirements defined in the Regulation the Minister of Health of 2 February 2011 (Journal of Laws No 33, item 166)

DNELs for components

DNEL	Ethanol
inhalation, employee	950 mg/m3
inhalation and skin, employee	343 mg/kg/day
skin, employee	343 mg/kg/day

PNEC values for components

PNEC	Ethanol
fresh water	0,96 mg/l
sea water	0,79 mg/l
freshwater sediment	3,57 mg/kg
sediment sea water	2,94mg/kg
soil	0,63 mg/kg
wastewater treatment	580 mg/l

8.2. Exposure controls

Observe general health and safety at work regulations. Do not eat, drink or smoke in work areas. Avoid contact with eyes and skin. Wash hands before breaks and finishing work. Ensure general and/or local exhaust ventilation in workplace in order to maintain the concentration level below the permissible concentration limit of hazardous substance in the air. Should handling the product cause risk that the employees' clothes might catch fire – install (not further than 20 m in straight line from the endangered workstations) emergency showers for washing the body and separate showers for rinsing eyes.

Hand and body protection: use protective gloves. It is recommended to use gloves made of e.g.: nitrile or butyl rubber 0,7 mm thick, with penetration time > 240 min. in case of frequent or prolonged exposure to the product.

Eye protection: not required during proper handling of the product.

Respiratory protection: not required in case of proper ventilation. In case of accident or hazard of exposure to high concentration of vapours in the air or in case of exceeding the exposure limits of TLV-TWA, use breathing protection – mask with vapour badge.

Used means of personal protection must meet requirements defined in the Regulation of the Minister of Economy of 28 December 2005 (Journal of Laws No 259, item 2173) and Directive 89/686/EEC (as amended). The employer is obliged to provide means of personal protection which are appropriate for the specific work and meet all quality requirements, including requirements for maintenance and cleaning.

Environmental exposure controls: avoid discharging to environment, do not release to sewage system. Possible emission from ventilation systems and processing devices should be checked in terms of verifying compliance with legal requirements regarding environmental protection.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state/appearance	liquid
colour:	Characteristic for the applied colouring
odour:	Characteristic for the applied aroma
odour threshold:	not indicated
pH (concentrated solution):	not indicated
melting/freezing point:	not indicated
initial boiling point:	not indicated
flash point:	>30°C
evaporation rate:	not indicated
flammability (solid, gas):	not applicable
upper/lower flammability:	36%/6% of volume. (for methanol)
vapour pressure (40°C):	not indicated
vapour density (air = 1):	not indicated
relative density (15°C):	0,9585-0,9595 g/cm^3
solubility:	soluble in water
auto-ignition temperature:	not indicated
decomposition temperature:	not indicated
explosive properties:	not demonstrated
oxidising properties:	not demonstrated
viscosity (40°C):	not indicated

9.2 Other information

surface tension: max. 33 mN/m

Section 10: Stability and reactivity

10.1 Reactivity

The product is reactive. Does not undergo dangerous polymerisation. See also Section 10.3 - 10.5.

10.2 Chemical stability

The product is stable, provided that it is properly handled and stored.

10.3 Possibility of hazardous reactions

Possible secretion of hydrogen in reaction with light metals. Methanol contained in the product can hazardously react with strong oxidants, alkaline metals, alkaline earth metals, metal oxides, acid anhydrides, and acids. Products vapours can create explosive mixtures with air.

10.4 Conditions to avoid

Avoid direct sunlight and sources of ignition and heat.

10.5 Incompatible materials

Strong oxidants, alkaline metals, alkaline earth metals, and acids.

10.6 Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

Information on acute and/or delayed toxicological effects is defined according to information on product classification and/or toxicology exams, as well as knowledge and experience of the manufacturer.

Substance toxicity

ethanol

LD_{50} (rat, ingestion)	7060 mg/kg
LC_{50} (rabbit, skin)	>20000mg/kg
LC_{50} (rat, inhalation)	38400 mg/l/10h
NOAEL (rat, ingestion)	>1730 mg/kg

Methyl- ethyl ketone

LD_{50} (rat, ingestion)	2727 mg/kg
LC_{50} (rabbit, skin)	13000mg/kg

Mixture toxicity

Acute toxicity

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.

Repeated dose toxicity

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.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Causes damage to organs: optic nerve, central nervous system.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1 Toxicity

Component toxicity

ethanol

Toxicity for fish	LC_{50}	13000 mg/l/96h (*Salomo gaidneri)*
Toxicity for daphnia	EC_{50}	7800 mg/l (*Daphnia magna*)
Toxicity for algae	IC_5	5000 mg/l (*Scenedesmus quadricauda*)
		1450mg/l (*Microcystis aeruginosa)*
Lethal concentration for fish		9000 mg/l/24h
		7000-9000 mg/l *(Gobio dobio*)
Toxicity to bacteria		6500 mg/l (*Pseudomonas putida)*

Mixture toxicity

The product is not classified as dangerous to the environment.

12.2 Persistence and degradability

The product is easily biodegraded.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

The product is mobile in soil.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

The product does not have global warming potential or ozone depletion potential.

Section 13: Disposal considerations

13.1 Waste treatment methods

Recommendations for mixture: do not release to sewage system. Dispose in accordance with current regulations. Waste disposal code should be given in the place of manufacture.

Recommendation for contaminated packaging: recycling/disposal of packaging in accordance with current regulations. Only completely empty packaging can be recycled. Do not cut empty packaging.

European Community laws: Directives of the European Parliament and of the European Council: 2008/98/EC, 94/62/EC.

National legal acts: Journal of Laws. 2013, item 21, Journal of Laws. 2013, item 888.

Section 14: Transport information

14.1 UN number (ONZ number)

1170

14.2 UN proper shipping name

ADR – ETHANOL SOLUTION
IMDG – ETHANOL SOLUTION

14.3 Transport hazard class(es)

3

14.4 Packing group

III

14.5 Environmental hazards

Mixture is not dangerous to the environment according to transport regulations.

14.6 Special precautions for user

Use personal protection means while handling in accordance with Section 8. Eliminate ignition sources.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Section 15: Regulatory information

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

Act of 25 February 2011 on the chemical substances and their mixtures (Journal of Laws No 63, item 322, as amended).

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on maximum concentration and intensity of agents harmful to health in the working environment (Journal of Laws 2014, item 817).

Wastes Act of 14 December 2012 (Journal of Laws 2013, item 21).

13 June 2013 Act on the management of packaging and packaging waste (Journal of Laws 2013, item 888).

Regulation of the Minister of Environment of 9 December 2014 on the catalogue of wastes (Journal of Laws 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005 on the basic requirements for personal protection equipment (Journal of Laws No 259, item 2173).

Regulation of the Minister of Health of 2 February 2011 on testing and measurements of factors hazardous to health at the workplace (Journal of Laws No 33, item 166).

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR).

1907/2006/EC on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), and establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and 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, as amended.

1272/2008/EC Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, as amended.

2015/830/EC Commission Regulation of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

2008/98/EC Directive of the European Parliament and of the Council of 19 November 2008 on Waste, repealing some directives.

94/62/EC Directive of the European Parliament and of the Council of 20 December 1994 on Packaging and Packaging Waste.

15.2 Chemical safety assessment

Mixture safety assessment is not required.

Section 16: Other information

Full text of H statements from Section 3 of this Safety Data Sheet

H225	Highly Flammable liquid and vapour.
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Explanation of abbreviations and acronyms

PBT	Persistent, Bioaccumulative and Toxic Substance
vPvB	Very Persistent and Very Bioaccumulative Substance
TLV-TWA	Threshold Limit Value
TLV-STEL	Threshold Limit Value Short-term Exposure Limit
TLV-C	Ceiling Exposure Limit
DSB	Admissible concentration in biological material
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects category 3
Acute Tox. 3	Acute toxicity category 3
Eye Dam. 1	Serious eye damage category 1
Skin Irrit. 2	Causes skin irritation category 2
Flam. Liq. 2	Liquid and flammable substance category 2
STOT SE 1	Specific target organ toxicity – single exposure category 1

Trainings

Prior to working with the product, users should read health and safety at work regulation regarding handling of chemicals and complete training appropriate for the workstation.

In accordance with ADR regulations, personnel responsible for transporting hazardous materials should complete appropriate training (general training, workstation training, health and safety training).

Additional information

Classification has been derived based on physicochemical tests and data on concentration of substance classified as hazardous obtained through summation method in accordance with Regulation 1272/2008/EC (CLP), as amended. Acute toxicity of the mixture (ATEmix) has been calculated based on a conversion value defined in Table 3.1.2. Annex I to the CLP Regulation, that relates to a classification category.

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Person responsible for safety data sheet:	Kinga Miśkiewicz MSc (based on information provided by the manufacturer)
Safety Data Sheet prepared by:	Venol Motor Oil Sp.zo.o.

The above information is based on our current knowledge and experience. It is not a guarantee of any qualities of the product or its quality specifications and it might not provide a basis for any complaint. The product should be transported, stored and used in compliance with applicable laws and regulations. The use of the information provided, as well as the use of the product is not controlled by the manufacturer, and thus, it is the User's obligation to create suitable conditions for safe handling of the product and observe all applicable laws and regulations.