

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

RODALON AFSPRIT 70% V/V / 9 X 500 ML BP

Version 4.0

Print Date 29.03.2024

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : RODALON AFSPRIT 70% V/V / 9 X 500 ML BP

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag Nordic A/S
Borupvang 5 B
DK 2750 Ballerup
Telephone : +45 43 29 28 00
Telefax : +45 43 29 27 00
E-mail address : dk-sds@brenntag.com
Responsible/issuing person : Environment & Quality

1.4. Emergency telephone number

Emergency telephone number : In case of personal injury call:
Denmark: +45 82 12 12 12 Giftlinien, Bispebjerg Hospital
Finland: +358 9 471 977 Finnish Poison Information Center (24 h/day)
Norway: +47 22 59 13 00 Giftinformasjonen (døgntøpent)
Sweden: +46-8-33 70 43 Giftinformationscentralen (24 hour service)
Outside these countries: Please call your local emergency services

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008

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Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Eye irritation	Category 2	Eyes	H319



For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health	:	Vapours may cause irritation, headache, dizziness and may have narcotic effects and other central nervous effects. Causes serious eye irritation. Cause pain in mouth and throat, nausea, vomiting, dizziness, headache and risk of unconsciousness.
Physical and chemical hazards	:	Highly flammable liquid and vapour., Vapours are heavier than air and may spread along floors., Vapours may form explosive mixtures with air., Contains organic solvents., To be stored as flammable liquid.
Potential environmental effects	:	According to available data, this product is not harmful to the environment.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols	:	 
Signal word	:	Danger
Hazard statements	:	<div>H225</div> <div>H319</div> <div>Highly flammable liquid and vapour. Causes serious eye irritation.</div>
Precautionary statements	:	
Prevention	:	<div>P264 P280</div> <div>Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection.</div> <div>P233 P210</div> <div>Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</div>
Response	:	<div>P305 + P351 + P338</div> <div>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue</div>

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P337 + P313 rinsing.
If eye irritation persists: Get medical advice/
attention.

Hazardous components which must be listed on the label:

- ethanol
- propan-2-ol

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical nature : Aqueous solution

		Classification (REGULATION (EC) No 1272/2008)	
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
ethanol			
Index-No. : 603-002-00-5	>= 50 - < 70	Flam. Liq.2	H225
CAS-No. : 64-17-5		Eye Irrit.2	H319
EC-No. : 200-578-6		specific concentration limit	
EU REACH-Reg. No. : 01-2119457610-43-xxxx			
		Eye Irrit. 2; H319	
		>= 50 %	
butanone			
Index-No. : 606-002-00-3	>= 1 - < 10	Flam. Liq.2	H225
CAS-No. : 78-93-3		Eye Irrit.2	H319
EC-No. : 201-159-0		STOT SE3	H336
EU REACH-Reg. No. : 01-2119457290-43-xxxx			EUH066

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propan-2-ol

Index-No.	: 603-117-00-0	$\geq 1 - < 10$	Flam. Liq.2	H225
CAS-No.	: 67-63-0		Eye Irrit.2	H319
EC-No.	: 200-661-7		STOT SE3	H336
EU REACH-	: 01-2119457558-25-xxxx			
Reg. No.				

Denatonium benzoate

CAS-No.	: 3734-33-6	$< 0,1$	Acute Tox.4 Oral	H302
EC-No.	: 223-095-2		Acute Tox.4 Inhalation	H332
			Skin Irrit.2	H315
			Eye Dam.1	H318
			Aquatic Chronic3	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled	: Move to fresh air. If symptoms call a physician.
In case of skin contact	: Take off all contaminated clothing immediately. Wash off with soap and water.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If symptoms persist, call a physician.
If swallowed	: Rinse mouth with water. Drink 1 or 2 glasses of water. Consult a physician.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: No information available.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing	: water spray, powder, Alcohol-resistant foam, Carbon dioxide
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media (CO2)
 Unsuitable extinguishing : Water jet.
 media

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Highly flammable, Vapours even below room temperatures can form explosive gas-air mixtures. Contaminated clothes are a fire risk.

5.3. Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
 Further advice : Cool closed containers exposed to fire with water spray. Risk of closed containers bursting if strongly heated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil. In case of large spillage contact the local authority.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Stop the leakage if it can be done without danger. Remove all sources of ignition. Use personal protective equipment. No sparking tools should be used. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). The surface of the spill can be covered in order to reduce vaporization and thereby the fire hazard.

6.4. Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on personal protective equipment.
 See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapour. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.
- Hygiene measures : Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs.
- Requirements for storage areas and containers : Storage must follow the regulations for flammable liquids: Class I-2 (DK only). Unsuitable materials for containers: polyethylene; Polypropylene
- Advice on protection against fire and explosion : Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Use only in an area containing explosion proof equipment.

7.3. Specific end use(s)

- Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	ethanol	CAS-No. 64-17-5
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		

- DNEL
Workers, Long-term - systemic effects, Inhalation : 950 mg/m³
- DNEL
Workers, Acute - local effects, Inhalation : 1900 mg/m³
- DNEL
Workers, Long-term - systemic effects, Skin contact : 343 mg/kg bw/day
- DNEL
Consumers, Long-term - systemic effects, Inhalation : 114 mg/m³
- DNEL
Consumers, Acute - local effects, Inhalation : 950 mg/m³
- DNEL
Consumers, Long-term - systemic effects, Skin contact : 206 mg/kg bw/day

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DNEL

Consumers, Long-term - systemic effects, Ingestion : 87 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	: 0,96 mg/l
Marine water	: 0,79 mg/l
Intermittent releases	: 2,75 mg/l
Sewage treatment plant (STP)	: 580 mg/l
Fresh water sediment	: 3,6 mg/kg d.w.
Marine sediment	: 2,9 mg/kg d.w.
Soil	: 0,63 mg/kg d.w.
Secondary poisoning	: 380 mg/kg food

Other Occupational Exposure Limit Values

Denmark. OELs. Annexes 2 & 3, Exposure Limits for Substances & Materials - Order No. 507, WEA, as amended, Threshold Limit Values (TLV):
1.000 ppm, 1.900 mg/m³

Denmark. OELs. Annexes 2 & 3, Exposure Limits for Substances & Materials - Order No. 507, WEA, as amended, Short Term Exposure Limit (STEL):
The short term exposure limit is twice the time-weighted average limit, see § 3, part 2

Component:	butanone	CAS-No. 78-93-3
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		

DNEL

Workers, Long-term - systemic effects, Skin contact : 1161 mg/kg bw/day

DNEL

Workers, Long-term - systemic effects, Inhalation : 600 mg/m³

DNEL

Consumers, Long-term - systemic effects, Skin contact : 412 mg/kg bw/day

DNEL

Consumers, Long-term - systemic effects, Inhalation : 106 mg/m³

DNEL

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Consumers, Long-term - systemic effects, Ingestion : 31 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water	: 55,8 mg/l
Marine water	: 55,8 mg/l
Intermittent releases	: 55,8 mg/l
Sewage treatment plant (STP)	: 709 mg/l
Sediment	: 284,7 mg/kg dry weight (d.w.)
Soil	: 22,5 mg/kg
Secondary poisoning	: 1000 mg/kg food

Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
200 ppm, 600 mg/m³
Indicative

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Short Term Exposure Limit (STEL):
300 ppm, 900 mg/m³
Indicative

Denmark. OELs. Annexes 2 & 3, Exposure Limits for Substances & Materials - Order No. 507, WEA, as amended, Threshold Limit Values (TLV):
50 ppm, 145 mg/m³
The substance has an EC-limit value

Denmark. OELs. Annexes 2 & 3, Exposure Limits for Substances & Materials - Order No. 507, WEA, as amended, Skin designation:
Can be absorbed through the skin.

Denmark. OELs. Annexes 2 & 3, Exposure Limits for Substances & Materials - Order No. 507, WEA, as amended, Short Term Exposure Limit (STEL):
300 ppm, 900 mg/m³

Component:	propan-2-ol	CAS-No. 67-63-0
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL
Workers, Long-term - systemic effects, Skin contact : 888 mg/kg bw/day

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Workers, Long-term - systemic effects, Inhalation : 500 mg/m³

DNEL

Consumers, Long-term - systemic effects, Skin contact : 319 mg/kg bw/day

DNEL

Consumers, Long-term - systemic effects, Inhalation : 89 mg/m³

DNEL

Consumers, Long-term - systemic effects, Ingestion : 26 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water : 140,9 mg/l

Marine water : 140,9 mg/l

Intermittent releases : 140,9 mg/l

Sewage treatment plant (STP) : 2251 mg/l

Sediment : 552 mg/kg d.w.

Soil : 28 mg/kg

Secondary poisoning : 160 mg/kg food

Other Occupational Exposure Limit Values

Denmark. OELs. Annexes 2 & 3, Exposure Limits for Substances & Materials - Order No. 507, WEA, as amended, Threshold Limit Values (TLV):
200 ppm, 490 mg/m³

Denmark. OELs. Annexes 2 & 3, Exposure Limits for Substances & Materials - Order No. 507, WEA, as amended, Short Term Exposure Limit (STEL):
The short term exposure limit is twice the time-weighted average limit, see § 3, part 2

8.2. Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation.

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

Exposure may primarily be reduced by choice of working method and technical measures.

Personal protective equipment

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Advice : In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended Filter type:A

Hand protection

Advice : Protective gloves

Material : Nitrile rubber
Break through time : 240 min
Glove thickness : 0,5 mm

Eye protection

Advice : Safety glasses

Skin and body protection

Advice : Wear suitable protective clothing.

Environmental exposure controls

General advice : The product should not be allowed to enter drains, water courses or the soil.
In case of large spillage contact the local authority.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form : liquid

Physical state : liquid

Colour : colourless, clear

Odour : alcohol-like

Odour Threshold : No data available

Freezing point : No data available

Boiling point : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

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Flash point	: ca. 22 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Self-Accelerating decomposition temperature (SADT)	: No data available
pH	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Dissolution Rate	: No data available
Partition coefficient: n-octanol/water	: No data available
Dispersion Stability	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: 0,884 g/cm ³ (15 °C)
	0,880 g/cm ³ (20 °C)
	0,854 g/cm ³ (50 °C)
Bulk density	: No data available
Relative vapour density	: No data available
Particle characteristics	
No data available	

9.2 Other information

Explosives	: Formation of explosive air/vapour mixtures is possible.
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SECTION 10: Stability and reactivity

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10.1. Reactivity

Advice : No information available.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.
No further information available.

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products : No information available.

SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Data for the product

Acute toxicity

Oral

Cause pain in mouth and throat, nausea, vomiting, dizziness, headache and risk of unconsciousness.

Inhalation

Vapours may cause irritation, headache, dizziness and may have narcotic effects and other central nervous effects.

Dermal

No data available

Irritation

Skin

Result : Prolonged skin contact may cause skin irritation.

Eyes

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Result : Causes serious eye irritation.

Sensitisation

No data available

CMR effects
CMR Properties

Carcinogenicity : No data available

Mutagenicity : No data available

Reproductive toxicity : No data available

Specific Target Organ Toxicity
Single exposure

No data available

Repeated exposure

No data available

Other toxic properties
Repeated dose toxicity

No data available

Aspiration hazard

No data available

Further information

Experience with human exposure : Contains organic solvents.
Chronic exposure damages the brain and the central nervous system.,

11.2. Information on other hazards
Data for the product
Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

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levels of 0.1% or higher.

SECTION 12: Ecological information
12.1. Toxicity

Component:	ethanol	CAS-No. 64-17-5
Acute toxicity		
Fish		
LC50	:	15.300 mg/l (Pimephales promelas (fathead minnow); 96 h) (flow-through test; US-EPA)
LC50	:	11.200 mg/l (Salmo gairdneri; 24 h) (flow-through test; US-EPA)
LC50	:	13.000 mg/l (Oncorhynchus mykiss; 96 h) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates		
EC50	:	858 mg/l (Artemia salina; 24 h) (OECD Test Guideline 202)Marine water
EC50	:	12.340 mg/l (Daphnia magna (Water flea); 48 h) (ASTM E 729-80)Fresh water
LC50	:	5.012 mg/l (Ceriodaphnia dubia (water flea); 48 h) (static test; ASTM E 729-80)Fresh water
algae		
EC50	:	275 mg/l (Chlorella vulgaris (Fresh water algae); 72 h) (static test; End point: Growth rate; OECD Test Guideline 201)Fresh water
EC10	:	11,5 mg/l (Chlorella vulgaris (Fresh water algae); 72 h) (static test; OECD Test Guideline 201)
Bacteria		
EC50	:	5800 mg/l (Paramecium caudatum; 4 h) (static test; No guideline followed)
Chronic toxicity		
Fish		

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NOEC : 245 mg/l (30 d) (QSAR)

Aquatic invertebrates

NOEC 9,6 mg/l (Ceriodaphnia dubia (water flea); 10 d) (semi-static test;
End point: Reproduction; No guideline followed)

NOEC 79 mg/l (Palaemonetes pugio; 12 d) (static test)

12.2. Persistence and degradability

Data for the product

Persistence and degradability

Biodegradability

Result : Expected to be readily biodegradable.

Component:	ethanol	CAS-No. 64-17-5
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Persistence and degradability

Persistence

Result : (Related to: Water) non-significant hydrolysis

12.3. Bioaccumulative potential

Data for the product

Bioaccumulation

Result : Bioaccumulation is not expected.

Component:	ethanol	CAS-No. 64-17-5
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Bioaccumulation

Result : log Kow -0,35 (24 °C; pH 7,4) (OECD Test Guideline 107)
: BCF: 0,66; Does not bioaccumulate.

12.4. Mobility in soil

Component:	ethanol	CAS-No. 64-17-5
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Mobility

Water : The product is water soluble.

Air : The product evaporates readily.

Soil : Not expected to adsorb on soil.

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12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Data for the product

Additional ecological information

Result : The product is mobile in water environment.
The product is not classified as environmentally hazardous.

Component:	ethanol	CAS-No. 64-17-5
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Biochemical Oxygen Demand (BOD)

Result : 100 mg/g

Chemical Oxygen Demand (COD)

Result : 1900 mg/g

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Eliminate waste in conditions authorized by the regulations. Store waste in containers provided for this purpose. Do not dump in drains, water sheets or the ground.

Contaminated packaging : Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation

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with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number or ID number

|| 1170
||

14.2. UN proper shipping name

|| ADR : ETHANOL SOLUTION
(Ethanol)

|| RID : ETHANOL SOLUTION
(Ethanol)

|| IMDG : ETHANOL SOLUTION
(Ethanol)

14.3. Transport hazard class(es)

ADR-Class (Labels; Classification Code; Hazard Identification Number; Tunnel restriction code)	: 3 3; F1; 33; (D/E)
RID-Class (Labels; Classification Code; Hazard Identification Number)	: 3 3; F1; 33
IMDG-Class (Labels; EmS)	: 3 3; F-E, S-D

14.4. Packaging group

|| ADR : II
|| RID : II
|| IMDG : II

14.5. Environmental hazards

Environmentally hazardous according to ADR	: no
Environmentally hazardous according to RID	: no
Marine Pollutant according to IMDG-Code	: no

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

RODALON AFSPRIT 70% V/V / 9 X 500 ML BP**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Data for the product**

National product code : 4330892

Other regulations : Only persons, who are thoroughly instructed in the dangerous properties and the necessary safety precautions of the substance, are allowed to work with it.

15.2. Chemical safety assessment

No data available

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3.**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Full text of the Notes referred to under section 3.**Abbreviations and Acronyms**

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances

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ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

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Key literature references and sources for data : Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

|| Indicates updated section.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.