

Version: 105.2

LP 289/99 RI 403

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 21/03/2017 Revision date: 07/03/2023 Supersedes version of: 31/10/2021

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

1.1. Product identifier

Product form : Mixture

: LP 289/99 RI 403 Product name : 019F-U0D0-700P-3J5P UFI

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

1.2.1. Relevant identified uses

: Professional use Main use category Use of the substance/mixture : Anti-static agent

Surface coolant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Producer

Riepe GmbH & Co. KG GmbH Theodor-Rosenbaum 32257 Bunde Germany T +49(0)522360990

info@riepe.eu - www.riepe.eu

Distributor

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<u>hranipex@hranipex.cz</u> - <u>www.hranipex.cz</u>

E-mail address of competent person responsible for the SDS:

sds@regartis.com

Supplier

Hranipex Ltd. Unit 2 Radial Park, Birmingham Business Park Birmingham, B37 7YN United Kingdom T 0121 767 9180 - F 0121 782 6250 hranipex@hranipex.co.uk - www.hranipex.co.uk

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02

GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P370+P378 - In case of fire: Use carbon dioxide (CO2), extinguishing powder, Water spray

to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610- 43	50 – 100	Flam. Liq. 2, H225 Eye Irrit. 2, H319



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Issue date: 21/03/2017 Version: 105.2 **Product identifier** Classification according to Name **Regulation (EC) No. 1272/2008** [CLP] propan-2-ol; isopropyl alcohol; isopropanol CAS-No.: 67-63-0 2.5 - 10Flam. Liq. 2, H225 EC-No.: 200-661-7 Eye Irrit. 2, H319 EC Index-No.: 603-117-00-0 STOT SE 3, H336 REACH-no: 01-2119457558-

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

: Remove contaminated clothes. If you feel unwell, seek medical advice (show the label First-aid measures general

where possible).

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact Take off immediately all contaminated clothing. Rinse and then wash skin thoroughly with

water and soap. If symptoms persist, call a physician.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth with water, do not induce vomiting, call a doctor.

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

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. extinguishing powder. Water spray or fog. For large fire: Alcohol-resistant

foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : Vapours may form explosive mixture with air. The vapours are denser than air and may

travel along the ground. Distance ignition possible.

Hazardous decomposition products in case of fire : On burning: release of carbon monoxide - carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions : During the fire of the product, keep the safe distance, use suitable breathing protection

(isolation device), or self-contained breathing apparatus. Use water spray or fog for cooling

exposed containers. Evacuate area.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Take precautionary measures against

static discharge.

Emergency procedures : Ensure adequate ventilation. Evacuate unnecessary personnel. No open flames, no sparks,

and no smoking. Eliminate every possible source of ignition. Avoid contact with skin and

eyes. Do not breathe vapours, spray, fume.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow to enter drains or water courses. In case of loss of large quantities, advice local authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal

binding agents). Collect all waste in suitable and labelled containers and dispose according

to local legislation. Non- sparking tools should be used.

Other information : Dispose of materials or solid residues at an authorized site. Ventilate spillage area.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13. (See section 7: Handling and Storage).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Use only non-sparking tools. Use explosion-proof equipment. Keep container closed when not in use. Take precautionary measures to prevent the formation of static electricity. Wear personal protective equipment. Do not breathe vapours, spray. Avoid contact with skin and eyes. Immediately remove

contaminated clothing or footwear.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Keep away from food and drink.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions Store tightly closed in a dry, cool and well-ventilated place. Keep away from sources of

ignition - No smoking. Keep away from heat and direct sunlight.

Incompatible products Do not store near oxidizing agents.

Storage area Storage class: 3

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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Ethanol (64-17-5)		
United Kingdom - Occupational Expo	osure Limits	
Local name	Ethanol	
WEL TWA (OEL TWA) [1]	1920 mg/m³	
WEL TWA (OEL TWA) [2]	1000 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
propan-2-ol; isopropyl alcohol; is	sopropanol (67-63-0)	
United Kingdom - Occupational Expo	osure Limits	
Local name	Propan-2-ol	
WEL TWA (OEL TWA) [1]	999 mg/m³	
WEL TWA (OEL TWA) [2]	400 ppm	
WEL STEL (OEL STEL)	1250 mg/m³	
WEL STEL (OEL STEL) [ppm]	500 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

8.1.4. DNEL and PNEC		
Ethanol (64-17-5)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	1900 mg/m³	
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	950 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation	950 mg/m³	
Long-term - systemic effects,oral	87 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	114 mg/m³	
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.96 mg/l	
PNEC aqua (marine water)	0.79 mg/l	
PNEC aqua (intermittent, freshwater)	2.75 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.6 mg/kg dwt	
PNEC sediment (marine water)	2.9 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.63 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	580 mg/l	

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propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	500 mg/m³ (8h)	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	26 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	89 mg/m³ (24h)	
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	140.9 mg/l	
PNEC aqua (marine water)	140.9 mg/l	
PNEC aqua (intermittent, freshwater)	140.9 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	552 mg/kg dwt	
PNEC sediment (marine water)	552 mg/kg dwt	
PNEC (Soil)		
PNEC soil	28 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	2251 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate general and local exhaust ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wear proper protective equipment.

8.2.2.1. Eye and face protection

Eye protection:

Tightly closed goggles (EN 166).

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Chemical resistant safety shoes

Hand protection:

Solvent-resistant gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemical resistant gloves (according to European standard ISO 374-1 or equivalent)	Butyl rubber	6 (> 480 minutes)	>0.7 mm	x	EN ISO 374

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equivalent)



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Hand protection Material Permeation Thickness (mm) Penetration Standard Type **EN ISO 374** Chemical resistant gloves Fluorocarbon rubber 6 (> 480 minutes) >0.7 mm Х (according to European (Viton) standard ISO 374-1 or

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. short term. Recommended: Filter AX (brown).

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Take off contaminated clothing. Wash protective equipment and clothing before reuse. Wash hands before break and at end of works.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Blue.
Odour : alcoholic.
Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not available
Boiling point : > 75 K

Flammability : Flammable liquid and vapour.

Explosive properties : The product is not explosive. May form an explosive mixture with air.

Explosion limits : Not available
Lower explosion limit : 4.8 vol % (EN 1839)
Upper explosion limit : 15 vol % (CAS 64-17-5)

Flash point : 23.5 °C

Auto-ignition temperature : Not available

Decomposition temperature : Not available

pH : 10.3

Viscosity, kinematic : Not available Solubility : Soluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C ≈ 50 hPa Density 0.87 g/cm³ Relative density Not available Relative vapour density at 20°C Not available Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

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Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402)
LC50 Inhalation - Rat	> 50 mg/l (OECD 403)
LC50 Inhalation - Rat (Vapours)	> 20 mg/l/4h

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Element of the state of the sta		
LD50 oral rat	5840 mg/kg (OECD 401)	
LD50 oral	4570 mg/kg	
LD50 dermal rat	13400 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 Inhalation - Rat	30 mg/l/4h	
,	·	

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 10.3

Serious eye damage/irritation : Causes serious eye irritation.

pH: 10.3

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)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard



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Issue date: 21/03/2017 Version: 105.2 Ethanol (64-17-5) NOAEL (oral, rat, 90 days) 1760 mg/kg bodyweight/day (OECD 408, target organ: liver) propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) NOAEL (oral, rat, 90 days) 900 mg/kg bodyweight/day (OECD 408)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

: Not classified (Based on available data, the classification criteria are not met)

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

Hazardous to the aquatic environment, long-term (chronic)

: Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)

Ethanol (64-17-5)		
LC50 - Fish [1]	8140 mg/l (Leuciscus idus) 48h	
EC50 - Crustacea [1]	> 10000 mg/l (Daphnia magna)	
EC50 72h - Algae [1]	275 mg/l (Chlorella vulgaris) (OECD 201)	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
LC50 - Fish [1]	> 100 mg/l (Leuciscus idus)	
LC50 - Fish [2]	> 10000 mg/l (Pimephales promelas) (OECD 203)	
EC50 - Crustacea [1]	> 100 mg/l (Daphnia magna)	
EC50 72h - Algae [1]	> 100 mg/l (Scenedesmus subspicatus)	
EC50 72h - Algae [2]	1050 mg/l (Pseudomonas putida) (DIN 38412 T.8)	

12.2. Persistence and degradability

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Persistence and degradability	Biodegradable.	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
Biochemical oxygen demand (BOD) 1.72 g O ₂ /g substance (Verordnung (EC) Nr. 440/2008, Anhang, C.)		
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance (Verordnung (EC) Nr. 440/2008, Anhang, C.)	
Biodegradation	53 % 5 d, BSB5/CS (92/69/EG (L383) C.5 * Abbaubarkeit)	

12.3. Bioaccumulative potential

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Bioaccumulative potential	No information available.

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No information available.

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12.4. Mobility in soil

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Ecology - soil

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Component		
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Additional information

: Do not allow product to spread into the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

Ecology - waste materials

HP Code

- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Do not dispose of waste into sewer.
- : Recycling is preferred to disposal or incineration. Do not remove as household garbage.
- : Flammable vapours may accumulate in the container.
- : Avoid release to the environment.
- : HP3 "Flammable:"
 - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID



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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID r	number			
UN 1987	UN 1987	UN 1987	UN 1987	UN 1987
14.2. UN proper shippin	g name			
ALCOHOLS, N.O.S.	ALCOHOLS, N.O.S.	Alcohols, n.o.s.	ALCOHOLS, N.O.S.	ALCOHOLS, N.O.S.
Transport document descr	ription (ADR)			
UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2- ol; isopropyl alcohol; isopropanol), 3, III, (D/E)	UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2- ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 Alcohols, n.o.s. (Ethanol; propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2- ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (Ethanol; propan-2 ol; isopropyl alcohol; isopropanol), 3, III
14.3. Transport hazard	class(es)			
3	3	3	3	3
3	3	3	3	3
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	zards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information	on available		ı	1

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 274, 601
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30

Orange plates :

30 1987

Tunnel restriction code (ADR) : D/E EAC code : •3Y

Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1



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Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1, TP29 EmS-No. (Fire) : F-E : S-D EmS-No. (Spillage) Stowage category (IMDG) : A

Air transport

: E1 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L : 355 PCA packing instructions (IATA) : 60L PCA max net quantity (IATA) : 366 CAO packing instructions (IATA) : 220L CAO max net quantity (IATA) Special provisions (IATA) : A3, A180 ERG code (IATA) : 3L

Inland waterway transport

: F1 Classification code (ADN) : 274, 601 Special provisions (ADN) Limited quantities (ADN) : 5 L : E1 Excepted quantities (ADN) Carriage permitted (ADN) : T Equipment required (ADN) : PP, EX, A : VE01 Ventilation (ADN) Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1 Special provisions (RID) : 274, 601 Limited quantities (RID) : 5L

Excepted quantities (RID) : E1

: P001, IBC03, LP01, R001 Packing instructions (RID)

Mixed packing provisions (RID) : MP19 : T4 Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBF Transport category (RID) : 3 Special provisions for carriage – Packages (RID) : W12 Colis express (express parcels) (RID) : CE4 Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3(a)	LP 289/99 RI403 ; Ethanol ; propan-2-ol; isopropyl alcohol; isopropanol	
3(b)	LP 289/99 RI403 ; Ethanol ; propan-2-ol; isopropyl alcohol; isopropanol	

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 21/03/2017 Revision date: 07/03/2023 Supersedes version of: 31/10/2021 Version: 105.2

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
40.	Ethanol ; propan-2-ol; isopropyl alcohol; isopropanol	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals

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 (CLP)

United Kingdom

British National Regulations

: Directive 2008/98/EC of the European Parliament and of the Council on waste and

repealing certain Directives, in the valid wording.

Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments

of waste, in the valid wording.

UK REACH. GB CLP.

UK Waste Regulations.

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
14.2	UN proper shipping	Modified	

Abbreviations and acronyms:		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<u>Issue date: 21/03/2017</u> Revision date: 07/03/2023 Supersedes version of: 31/10/2021 Version: 105.2

Abbreviations and acronyms:		
Abbieviations and acid	onymo.	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IMDG	International Maritime Dangerous Goods	
IATA	International Air Transport Association	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
PBT	Persistent Bioaccumulative Toxic	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources : ECHA Guidance on the compilation of safety data sheets

ECHA C&L Inventory database. Supplier's safety documents.

Training advice : Provide SDS to employees. Follow general rules on handling chemical substances and/or

mixtures.

Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Eye Irrit. 2	H319	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.