



Safety Data Sheet

102ProX

Version number: 1.0

Date of compilation: 2022-12-12

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

1.1 Product identifier

Trade name **102ProX**
Registration number (REACH) not relevant (mixture)
Product code(s) P-RG-016-XX

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

Relevant identified uses Professional use

1.3 Details of the supplier of the safety data sheet

P1 Racing Fuels Limited
Unit 21, Dockgate, Merchants Road
H91P6CF Galway
Ireland

Telephone: +49 172 2772595
e-mail: info@p1fuels.com
Website: <http://www.p1fuels.com/>

1.4 Emergency telephone number

Giftnotruf der Charité - Universitätsmedizin Berlin Campus Benjamin Franklin, Hindenburgdamm 30, 12203 Berlin
+49 30 19240 (24 hour service)

Emergency information service 24 hour service

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	2	Flam. Liq. 2	H225
3.1D	acute toxicity (dermal)	5	Acute Tox. 5	H313
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.5	germ cell mutagenicity	1B	Muta. 1B	H340
3.6	carcinogenicity	1A	Carc. 1A	H350
3.8	specific target organ toxicity - single exposure	2	STOT SE 2	H371
3.10	aspiration hazard	1	Asp. Tox. 1	H304
4.1A	hazardous to the aquatic environment - acute hazard	2	Aquatic Acute 2	H401
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.



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The most important adverse physicochemical, human health and environmental effects

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- Signal word danger

- Pictograms

GHS02, GHS07, GHS08



- Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H371	May cause damage to organs.
H411	Toxic to aquatic life with long lasting effects.

- Precautionary statements

P203	Obtain, read and follow all safety instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P317	IF ON SKIN: Get medical help.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P318	IF exposed or concerned, get medical advice.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P332+P317	If skin irritation occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.



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- Hazardous ingredients for labelling

Gasoline, Alcohols C1-C4, Renewable hydrocarbons









2.3 Other hazards of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Gasoline	CAS No 86290-81-5 EC No 289-220-8 Index No 649-378-00-4 REACH Reg. No 01-2119471335-39- xxxx 01-2119520715-43- xxxx	75 – < 90	Flam. Liq. 1 / H224 Acute Tox. 5 / H313 Muta. 1B / H340 Carc. 1A / H350 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401	 
Renewable hydrocarbons	EC No 701-193-0	1 – < 10	Flam. Liq. 1 / H224 Acute Tox. 5 / H313 Skin Irrit. 2 / H315 Muta. 1B / H340 Carc. 1B / H350 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411	   
Ethers C5-C6	CAS No 108-20-3 637-92-3 1634-04-4 1784-03-8 EC No 216-653-1 203-560-6 Index No 603-181-00-X REACH Reg. No 01-2119452786-27- xxxx	1 – < 10	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315	 




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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Alcohols C1-C4	CAS No 67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0 EC No 200-659-6 200-578-6 200-746-9 200-661-7 200-751-6 201-148-0 200-889-7 Index No 603-001-00-X REACH Reg. No 01-2119392409-28- xxxx 01-2119433307-44- xxxx 01-2119457610-43- xxxx 01-2119486761-29- xxxx 01-2119457558-25- xxxx 01-2119484630-38- xxxx 01-2119484609-23- xxxx 01-2119444321-51- xxxx 01-2119964677-19- xxxx	1 - < 10	Flam. Liq. 2 / H225 Acute Tox. 5 / H303 Acute Tox. 5 / H313 Acute Tox. 3 / H331 STOT SE 1 / H370	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.



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Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains



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Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
EU	tert-butyl methyl ether	1634-04-4	IOELV	50	183.5	100	367				2009/161/EU
EU	methanol	67-56-1	IOELV	200	260					H	2006/15/EC
IE	isopropyl ether	108-20-3	OELV	250	1,050	310	1,320				S.I. No. 619 of 2001
IE	tert-butyl methyl ether	1634-04-4	OELV	50	183.5	100	367				S.I. No. 619 of 2001
IE	ethanol	64-17-5	OELV			1,000					S.I. No. 619 of 2001
IE	methanol	67-56-1	OELV	200	260					H	S.I. No. 619 of 2001
IE	isopropyl alcohol	67-63-0	OELV	200		400				H	S.I. No. 619 of 2001
IE	n-propanol	71-23-8	OELV	100						H	S.I. No. 619 of 2001
IE	butan-1-ol	71-36-3	OELV	20							S.I. No. 619 of 2001
IE	2-methylpropan-2-ol	75-65-0	OELV	100	300						S.I. No. 619 of 2001
IE	isobutyl alcohol	78-83-1	OELV	50	150	75	225				S.I. No. 619 of 2001
IE	Petrol (Gasoline)	86290-81-5	OELV	300		500					S.I. No. 619 of 2001

Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

H

absorbed through the skin

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)



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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Renewable hydrocarbons		DNEL	1,300 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Renewable hydrocarbons		DNEL	840 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Renewable hydrocarbons		DNEL	1,100 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	DNEL	1,700 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	DNEL	178.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	DNEL	357 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	DNEL	5,100 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects



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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	DNEL	130 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	PNEC	5.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	PNEC	0.26 mg/l	aquatic organisms	marine water	short-term (single instance)
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	PNEC	71 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	PNEC	23 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	PNEC	1.17 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	PNEC	1.56 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	PNEC	20.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	PNEC	2.08 mg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	PNEC	77 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	PNEC	7.7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	PNEC	100 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.



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Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	not determined
Odour	characteristic
Melting point/freezing point	-108.6 °C at 101.3 kPa
Boiling point or initial boiling point and boiling range	36 – 200 °C at 101.3 kPa
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	1.4 vol% - 13.5 vol%
Flash point	-22 °C
Auto-ignition temperature	≥280 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	Decomposition onset temperature:
pH (value)	not determined
Kinematic viscosity	not determined



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Solubility(ies)	not determined
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Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	55 – 70 kPa at 37.8 °C
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Density and/or relative density

Density	765 – 775 kg/m ³ at 15 °C
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Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	there is no additional information
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Other safety characteristics

Solvent content	100 %
Solid content	0 %
Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

May be harmful in contact with skin.

- Acute toxicity estimate (ATE)

Dermal 2,186 mg/kg

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Gasoline	86290-81-5	dermal	>2,000 mg/kg
Renewable hydrocarbons		dermal	>2,000 mg/kg
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	oral	>2,000 mg/kg
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	dermal	>2,000 mg/kg
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	oral	3,384 mg/kg



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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	dermal	>2,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause damage to organs.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Gasoline	86290-81-5	LL50	8.2 mg/l	fish	96 h
Gasoline	86290-81-5	EL50	4.5 mg/l	aquatic invertebrates	48 h



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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Renewable hydrocarbons		LL50	10 mg/l	fish	96 h
Renewable hydrocarbons		EL50	4.5 mg/l	aquatic invertebrates	48 h
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	LC50	672 mg/l	fish	96 h
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	EC50	472 mg/l	aquatic invertebrates	48 h
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	LC50	15,400 mg/l	fish	96 h
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	EC50	12,700 mg/l	fish	96 h
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	ErC50	22,000 mg/l	algae	96 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Gasoline	86290-81-5	EL50	10 mg/l	fish	21 d
Gasoline	86290-81-5	EC50	15.41 mg/l	microorganisms	40 h
Renewable hydrocarbons		EL50	10 mg/l	fish	21 d
Renewable hydrocarbons		EC50	15.41 mg/l	microorganisms	40 h



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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	EC50	3,155 mg/l	microorganisms	3 h
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	LC50	1,806 mg/l	aquatic invertebrates	10 d
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	ErC50	675 mg/l	algae	4 d
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	EC50	>100 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	oxygen depletion	0 %	28 d		ECHA
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	carbon dioxide generation	2.6 – 5.1 %	29 d		ECHA
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0	oxygen depletion	69 %	5 d		ECHA



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12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Ethers C5-C6	108-20-3 637-92-3 1634-04-4 1784-03-8	1.5	1.06 (pH value: 7, 20 °C)	
Alcohols C1-C4	67-56-1 64-17-5 71-23-8 67-63-0 71-36-3 78-83-1 75-65-0		-0.77	0.5543

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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SECTION 14: Transport information

14.1 UN number

ADR/RID	UN 1993
IMDG-Code	UN 1993
ICAO-TI	UN 1993

14.2 UN proper shipping name

ADR/RID	FLAMMABLE LIQUID, N.O.S.
IMDG-Code	FLAMMABLE LIQUID, N.O.S.
ICAO-TI	Flammable liquid, n.o.s.
Technical name (hazardous ingredients)	Gasoline, Renewable hydrocarbons

14.3 Transport hazard class(es)

ADR/RID	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

ADR/RID	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information

Particulars in the transport document	special provision 640D
Classification code	F1
Danger label(s)	3



Special provisions (SP)	274, 601, 640D
Excepted quantities (EQ)	E2



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Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D/E
Hazard identification No	33

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information

Classification code	F1
Danger label(s)	3



Special provisions (SP)	274, 601, 640D
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	33

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	-
Danger label(s)	3



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, <u>S-E</u>
Stowage category	B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s)	3
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Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L



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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Deco-Paint Directive

VOC content	100 %
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Industrial Emissions Directive (IED)

VOC content	100 %
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15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
2009/161/EU	Commission Directive establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level



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Abbr.	Descriptions of used abbreviations
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
Muta.	Germ cell mutagenicity
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)



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Abbr.	Descriptions of used abbreviations
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.
H371	May cause damage to organs.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.



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Code	Text
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.