SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

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

1.1. Product identifier — SPIRIT 2

Substance / mixture — mixture

Number — 11910/04

UFI — 18UM-SAAT-C00R-W26N

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

Mixture's intended use

Lubricant (aerosol). For professional and industrial use only.

Main intended use

PC-TEC-11 — Lubricants, greases, release agents

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	STRIMA Sp. z o.o.
Address	Swadzim, ul. Poznańska 54 , Tarnowo Podgórne, 62-080 Poland
Phone	+48 61 895 09 50
E-mail	p.skowronski@strima.com

Email address for a competent person responsible for the safety data sheet

Name	STRIMA Sp. z o.o.
E-mail	p.skowronski@strima.com

1.4. Emergency telephone number

+48 61 895 09 50 (8-16)
European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229

Most serious adverse physico-chemical effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H222 — Extremely flammable aerosol.

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

H229	Pressurised container: May burst if heated.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to according to applicable regulations.

2.3. Other hazards

Explosive mixtures can form at ambient temperature due to gas-air mixing. Heating a sealed gas in a sealed vessel can lead to an explosion. It is mildly irritating, slightly narcotic and asphyxiating as oxygen is displaced from the surrounding air. Direct contact with liquefied gas can cause frostbite. The endocrine-disrupting properties of the mixture have not been studied. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 8042-47-5 EC: 232-455-8 Registration number: 01-2119487078-27	White mineral oil	40-50	not classified as dangerous	3
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane	25-30	Flam. Gas 1A, H220 Press. Gas (liquefied gas), H280	1, 2
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	15-20	Flam. Gas 1A, H220 Press. Gas (liquefied gas), H280	2
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	isobutane	7-10	Flam. Gas 1A, H220 Press. Gas (liquefied gas), H280	1, 2

Notes

1 *Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.*

2 *Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:*

Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

3 *Fulfilled Note L*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

Unlikely.

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

Not expected.

If on skin

Not expected.

If in eyes

When intruding eyes, it can evoke irritation.

If swallowed

Not expected.

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

Symptomatic treatment.

More information

Other relevant information is not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water jet.

5.2. Special hazards arising from the substance or mixture

Danger of bursting (explosion) when heated. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Stop leak if possible. Dilute vapors (if accumulated) with water spray. Thoroughly ventilate the spill area. Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Do not store with comburents, self-flammable or self-heating substances, organic peroxides, oxidising agents, pyrophoric solids or liquids and explosives.

Storage temperature min 15 °C, max 30 °C

7.3. Specific end use(s)

Apart from the already mentioned guidelines, it is not necessary to follow any specific recommendations for the use of this product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

DNEL

White mineral oil			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	217.05 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	93.02 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	164.56 mg/m³	Chronic effects systemic
Consumers	Inhalation	34.78 mg/m³	Chronic effects systemic
Consumers	Oral	25 mg/kg bw/day	Chronic effects systemic

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed) according to EN 166

Skin protection

Hand protection: Protective gloves product resistant in accordance with EN ISO 374-1.Recommended material: nitrile rubber (NBR), polyvinyl chloride (PVC), polyethylene (PE), chloroprene rubber (CR), fluoroelastomeric rubber (FKM) with a permeation rate of 6 (>480 minutes). Do not use gloves made of natural rubber. Contaminated skin should be washed thoroughly. Wear clean antistatic and covering garments, and antistatic safety-

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

shoes for professional use, S2 category (Type EN20345). In case of long and frequent contact use protective garments, than are impervious to this product (Type EN340 – EN13034).

Respiratory protection

Use protective masks EN149 with FFP2 filters, half-face respirator type EN140 with EN143:A2 filters, or full face breathing mask EN136 with EN143:A2 filters when the concentration exceed the threshold limit values.

Thermal hazard

Flammable product, avoid contact with hot surfaces, sources of fire and high temperatures.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	after hydrocarbons
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	extremely flammable
Lower and upper explosion limit	
bottom	1.8 %
upper	15 %
Flash point	<0 °C
Auto-ignition temperature	>300 °C
Decomposition temperature	not determined
pH	non-soluble (in water)
Kinematic viscosity	not applicable
Solubility in water	insoluble
Solubility in fats	soluble
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	3-5 bar
Density and/or relative density	not determined
Relative vapour density	2 (air=1)
Particle characteristics	not applicable
Form	aerosol dispenser: spray aerosol

9.1. Other information

none

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with sources of ignition makes product set on fire.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Do not store with comburents, self-flammable or self-heating substances, organic peroxides, oxidising agents, pyrophoric solids or liquids and explosives.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological effects are expected if occupational exposure limits are not exceeded. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

butane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC_{50}		658 mg/l	4 hours	Rat		Literary studies
Inhalation	LC_{50}		276000 ppm	4 hours	Rat		Literary studies

isobutane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC_{50}		658 mg/l	4 hours	Rat		Literary studies

isobutane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC_{50}		276000 ppm	4 hours	Rat		Literary studies

propane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC_{50}		658 mg/l	4 hours	Rat		

White mineral oil							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	OECD 401	>5000 mg/kg		Rat		
Dermal	LD_{50}	OECD 402	>2000 mg/kg		Rabbit		

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

Inhalation	LD_{50}	OECD 403	>5000 mg/m³	4 hours	Rat		

Skin corrosion/irritation
Based on available data the classification criteria are not met.

White mineral oil				
Route of exposure	Result	Method	Exposure time	Species
Skin	Irritating	OECD 404		Rabbit

Serious eye damage/irritation
Based on available data the classification criteria are not met.

White mineral oil				
Route of exposure	Result	Method	Exposure time	Species
Eye	Slightly irritating	OECD 405		Rabbit

Respiratory or skin sensitisation
Based on available data the classification criteria are not met.

Germ cell mutagenicity
Based on available data the classification criteria are not met.

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

Reproductive toxicity
Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure
Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Aspiration hazard
Based on available data the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

not available

SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

SECTION 12: Ecological information

12.1. Toxicity

It is not expected to be harmful to the aquatic environment.

Acute toxicity

butane				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	49.9 mg/l	96 hours	Fish	
ErC_{50}	19.37 mg/l	96 hours	Algae	
EC_{50}	69.43 mg/l	48 hours	Crustaceans (Daphnia sp.)	

White mineral oil				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	>100 mg/l	96 hours	Fish	
EC_{50}	100 mg/l	48 hours	Daphnia (Daphnia magna)	
EC_{50}	100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Chronic toxicity

White mineral oil				
Parameter	Value	Exposure time	Species	Environment
NOEC	>10 mg/l	21 days	Daphnia (Daphnia magna)	
NOEC	>100 mg/l	21 days	Algae (Pseudokirchneriella subcapitata)	

12.2. Persistence and degradability

There are no ecotoxicological data available for the product.

Biodegradability

butane				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

isobutane				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

propane				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

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SAFETY DATA SHEET

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COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

White mineral oil				
Parameter	Value	Exposure time	Environment	Result
	60 %	28 days		Easily biodegradable

12.1. Bioaccumulative potential

There are no ecotoxicological data available for the product.

butane						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Kow	<4					
BCF	33					
Log Pow	2.89					

isobutane						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
BCF	27					
Log Pow	2.76					
Log Kow	<4					

propane						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
Log Pow	2.3					

White mineral oil						
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
						Potencjalnie wykazujący zdolność do bioakumulacji. Jednak metabolizm lub właściwości fizyczne mogą zmniejszać biokoncentrację lub ograniczać biodostępność.

12.2. Mobility in soil

There are no ecotoxicological data available for the product.

butane

SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

Parameter	Value	Temperature	Source
Napięcie powierzchniowe	<0.10	0°C	N/m
Koc	35		

isobutane			
Parameter	Value	Temperature	Source
Napięcie powierzchniowe	<0.10	0°C	N/m
Koc	35		

12.1. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.2. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.3. Other adverse effects

Unknown.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

A container that is free of residual product can be treated as a waste that does not pose a hazard. Do not puncture, cut or weld empty packaging. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not dispose unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

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SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

Product is not an environmental hazard according to the criteria of the UN Model Regulations.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable - not intended for bulk transportation.

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SAFETY DATA SHEET

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COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

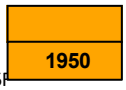
Additional information

Hazard identification

No. UN number

Classification code 5F

Safety signs 2.1

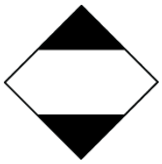




Road transport - ADR

Limited quantities 1 L

Sign



Tunnel restriction code (D)

Air transport - ICAO/IATA

Packaging instructions passenger 203

Cargo packaging instructions 203

Marine transport - IMDG

EmS (emergency plan) F-D, S-U

MFAG 620

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

For mixtures, a chemical safety assessment is not required.

More information

Seveso Directive 2012/18/EU (Seveso III): P3a FLAMMABLE AEROSOLS

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to according to applicable regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	Agreement concerning the international carriage of dangerous goods by road
Aerosol	Aerosol
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_{50}	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Flam. Gas	Flammable gas
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure
Press. Gas (Comp.)	Gas under pressure: compressed gas

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SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

SPIRIT 2

Creation date	18th October 2017		
Revision date	02nd April 2025	Version	5.1

Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

Uses advised against: Any type of use not listed in this Safety Data Sheet.

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available.

The changes (which information has been added, deleted or modified)

Version 5.1. General update - the adaptation to current legislation.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

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