

SAFETY DATA SHEETS

This SDS packet was issued with item:

071466408

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

076040018

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Renfert-Scanspray**1731 0000**

Revision date: 19.04.2022

Product code: 17310000

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Renfert-Scanspray 1731 0000

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

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	Renfert GmbH	
Street:	Untere Giesswiesen 2	
Place:	D-78247 Hilzingen	
Telephone:	+49 7731 8208-0	Telefax: +49 7731 8208-70
e-mail:	info@renfert.com	
Contact person:	Frau Andris	
e-mail:	silke.andris@renfert.com	
Internet:	www.renfer.com	

1.4. Emergency telephone number: IRL: 01 809 2566 (Healthcare Professionals) | GB: 0044 151 951 3317 (Health and Safety Executive (HSE) Chemicals)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Aerosol 1; H222-H229
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

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.
P273	Avoid release to the environment.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Aerosol

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
75-28-5	isobutane			50 - 100 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1; H220			
64-17-5	ethanol			2,5 - 10 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2; Eye Irrit. 2; H225 H319			
1314-98-3	Zinc sulphide			2,5 - 10 %
	215-251-3		01-2119475779-15	
109-66-0	pentane			< 5 %
	203-692-4	601-006-00-1		
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
64-17-5	200-578-6	ethanol	2,5 - 10 % %
	Eye Irrit. 2; H319: >= 50 - 100		
109-66-0	203-692-4	pentane	< 5 % %
	inhalation: LC50 = 364 mg/l (vapours)		

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin

No special measures are necessary.

In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth. When in doubt or if symptoms are observed, get medical advice.

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

No information available.

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 (CO₂), Extinguishing powder, Water spray jet, alcohol resistant foam**Unsuitable extinguishing media**

Full water jet

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Do not inhale explosion and combustion gases.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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General advice

- Use personal protection equipment.
- Remove all sources of ignition.
- Provide adequate ventilation.

6.2. Environmental precautions

- Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

- Provide adequate ventilation.

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

- Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
- Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion

- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking.
- Take precautionary measures against static discharges.

Advice on general occupational hygiene

- Provide adequate ventilation.
- Wash hands before breaks and after work.
- Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

- Keep only in the original container in a cool, well-ventilated place.

Further information on storage conditions

- Protect against: Heat, UV-radiation/sunlight
- Heating causes rise in pressure with risk of bursting.

7.3. Specific end use(s)

- Please refer to our internet website for more information. www.renfert.com

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
75-28-5	Butane, all isomers - Isobutane	1000	-	-	STEL (15 min)	
64-17-5	Ethanol	1000	-	-	STEL (15 min)	
109-66-0	n-Pentane	1000	-	-	TWA (8 h)	

8.2. Exposure controls**Appropriate engineering controls**

- Safe handling: see section 7

Individual protection measures, such as personal protective equipment**Eye/face protection**

- Wear eye/face protection.

Hand protection

- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

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Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), NR (natural rubber, Natural latex)

Thickness of the glove material: $\geq 0,4$ mmBreakthrough time: ≥ 60 min

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. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Respiratory protection

Use only in well-ventilated areas.

Usually no personal respiratory protection necessary.

Environmental exposure controls

Do not allow to enter into surface water or drains.

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

Physical state:	Aerosol
Colour:	white
Odour:	characteristic

Changes in the physical state

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: - 11 °C

Flash point: not applicable

Flammability

Solid/liquid: not applicable

Gas: not applicable

Lower explosion limits: 1,8 vol. %

Upper explosion limits: 8,5 vol. %

Auto-ignition temperature: 460 °C

Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

pH-Value: not applicable

Viscosity / dynamic: not applicable

Viscosity / kinematic: not applicable

Water solubility: Immiscible

Partition coefficient n-octanol/water: not determined

Vapour pressure: 3000 hPa

(at 20 °C)

Density (at 20 °C): 0,64 g/cm³

Relative vapour density: not determined

9.2. Other information

Solid content: < 10 %

Evaporation rate: not applicable

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

10.4. Conditions to avoid

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

In case of warming: Danger of bursting container.

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10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
109-66-0	pentane				
	inhalation (4 h) vapour	LC50	364 mg/l	Rat	GESTIS

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards**Endocrine disrupting properties**

No information available.

Further information

The product has not been tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information**12.1. Toxicity**

There are no data available on the mixture itself.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
109-66-0	pentane					
	Acute crustacea toxicity	EC50	9,74 mg/l	48 h	Daphnia magna	IUCLID

12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64-17-5	ethanol			
	OECD 301B	97 %	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	2,8
64-17-5	ethanol	-0,35
109-66-0	pentane	3,39

12.4. Mobility in soil

There are no data available on the mixture itself.

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12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2

14.4. Packing group:

-

Hazard label:

2.1

**Marine transport (IMDG)****14.1. UN number or ID number:**

UN 1950

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1



Marine pollutant:

no

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

UN 1950

14.2. UN proper shipping name:

AEROSOLS, flammable

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

No

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14.6. Special precautions for user

Further information: see section 6, 7, 8

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****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2004/42/EC (VOC): 597,76 g/l

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Additional information

REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on substances that deplete the ozone layer: not applicable

REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on persistent organic pollutants

: not applicable

REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of hazardous chemicals: not applicable

SECTION 16: Other information**Changes**

Abs. 8, 11, 12, 16 * Data changed compared with the previous version.

Abbreviations and acronyms

PBT: persistent and bioaccumulative and toxic

vPvB: very persistent, very bioaccumulative

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ATE: Acute Toxicity Estimate

LD50: lethal dose, 50%

LC50: lethal concentration, 50%

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

VOC: volatile organic compound(s)

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the



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case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. Restricted to professional users.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

Renfert Scanspray classic**1731 1000**

Revision date: 06/28/2023

Product code: 17311000_USA

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1. Identification**Product identifier**

Renfert Scanspray classic 1731 1000

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

Renfert-Scanspray is designed for extraoral use, in a laboratory environment, for use on prepared models and impressions prior to scanner exposure.

Uses advised against

No information available.

Details of the supplier of the safety data sheet**Manufacturer**

Company name: Renfert GmbH
Street: Untere Giesswiesen 2
Place: D-78247 Hilzingen
Telephone: +49 7731 8208-0
e-mail: info@renfert.com
Internet: www.renfert.com

Supplier

Company name: Renfert USA
Street: 3718 Illinois Avenue
Place: USA-60174 St. Charles IL
Telephone: (001) 800336-7422
e-mail: Bob@RenfertUSA.com
Contact person: Charlie Hagy
e-mail: Charlie@RenfertUSA.com
Internet: www.renfert.com

Telephone: +1 (630) 5497380

Emergency phone number:

USA: 800-222-1222 (National Poison Control number) | CA: British Columbia:
800-567-8911 or 604-682-5050 Alberta: 1-800-332-1414 or 944-1414 Saskatchewan:
1-866-454-1212 Manitoba: 1-855-776-4766 Ontario: 1-800-268-9017 Quebec:
1-800-463-5060 New Brunswick: 911 New Foundland: 1-866-727-1110 Northwest
Territories: 1-800-332-1414 Nova Scotia: 1-800-565-8161

2. Hazard(s) identification**Classification of the chemical****29 CFR Part 1910.1200**

Flammable aerosols: Flam. Aerosol 1
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)
Hazardous to the aquatic environment: Aquatic Chronic 3

Label elements**29 CFR Part 1910.1200****Signal word:**

Danger

Pictograms:**Hazard statements**

Extremely flammable aerosol
Pressurised container: may burst if heated
May cause drowsiness or dizziness
Harmful to aquatic life with long lasting effects

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing spray.
Store in a well-ventilated place. Keep container tightly closed.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Hazards not otherwise classified

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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

3. Composition/information on ingredients**Mixtures****Chemical characterization**

Aerosol

Hazardous components

CAS No	Components	Quantity
109-66-0	pentane	< 14 %
64-17-5	ethanol	< 2 %

4. First-aid measures**Description of first aid measures****General information**

Call a POISON CENTER if you feel unwell.

After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

After contact with skin

Rinse skin with water. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth. When in doubt or if symptoms are observed, get medical advice.

Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO₂), Extinguishing powder, Water spray jet , alcohol resistant foam**Unsuitable extinguishing media**

Full water jet

Specific hazards arising from the chemical

Extremely flammable aerosol.

Pressurised container: May burst if heated. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Do not pierce or burn, even after use.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Do not inhale explosion and combustion gases.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protection equipment.

Remove all sources of ignition.

Provide adequate ventilation.

Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up**Other information**

Provide adequate ventilation.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

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7. Handling and storage**Precautions for safe handling****Advice on safe handling**

Use only outdoors or in a well-ventilated area. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Handle and open container with care.

Advice on protection against fire and explosion

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Advice on general occupational hygiene

Provide adequate ventilation.

Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place.

Further information on storage conditions

Protect against: Heat, UV-radiation/sunlight

Heating causes rise in pressure with risk of bursting.

Recommended storage temperature: 5°C - 35°C

8. Exposure controls/personal protection**Control parameters****Exposure limits**

CAS No	Substance	ppm	mg/m ³	f/cc	Category	Origin
64-17-5	Ethyl alcohol (Ethanol)	1000	1900		TWA (8 h)	PEL
64-17-5	Ethyl alcohol	1000	1900		TWA (8 h)	REL
106-97-8	n-Butane	800	1900		TWA (8 h)	REL
109-66-0	n-Pentane	120	350		TWA (8 h)	REL
		C 610	C 1800		Ceiling	REL
109-66-0	Pentane	1000	2950		TWA (8 h)	PEL
74-98-6	Propane	1000	1800		TWA (8 h)	PEL
		1000	1800		TWA (8 h)	REL

Exposure controls**Appropriate engineering controls**

Safe handling: see section 7

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Respiratory protection

Use only in well-ventilated areas.

Usually no personal respiratory protection necessary.

Environmental exposure controls

Do not allow to enter into surface water or drains.

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9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Aerosol
Color:	white
Odor:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	- 42 °C
Flammability:	Extremely flammable aerosol.
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	10,9 vol. %
Flash point:	not applicable
Auto-ignition temperature:	not determined
Decomposition temperature:	No data available
pH-Value:	not applicable
Viscosity / kinematic:	not applicable
Water solubility:	Immiscible
Partition coefficient n-octanol/water:	not determined
Vapor pressure:	2700 hPa
(at 20 °C)	
Density (at 20 °C):	0,54 g/cm ³
Relative density:	not applicable
Relative vapour density:	No data available

Other information**Information with regard to physical hazard classes**

Explosive properties

In use, may form flammable/explosive vapor-air mixture.

Further Information

No further relevant information available.

10. Stability and reactivity**Reactivity**

No hazardous reaction when handled and stored according to provisions.

Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Conditions to avoid

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

In case of warming: Danger of bursting container.

Incompatible materials

Oxidizing agent, strong

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

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

Irritation and corrosivity

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

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (pentane)

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

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Carcinogenicity (IARC):

Ethanol in alcoholic beverages (CAS 64-17-5) is listed in group 1.

Carcinogenicity (NTP):

No ingredient of this mixture is listed.

Aspiration hazard

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

Practical experience

Repeated exposure may cause skin dryness or cracking.

Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Further information

The product has not been tested. The statement is derived from the properties of the single components.

12. Ecological information**Ecotoxicity**

Harmful to aquatic life with long lasting effects

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

There are no data available on the mixture itself.

Mobility in soil

There are no data available on the mixture itself.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

No information available.

Further information

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation.

14. Transport information**U.S. DOT 49 CFR 172.101****UN number or ID number:**

UN 1950

Proper shipping name:

AEROSOLS

Transport hazard class(es):

2.1

Hazard label:

2.1

**Marine transport (IMDG)****UN number or ID number:**

UN 1950

UN proper shipping name:

AEROSOLS

Transport hazard class(es):

2.1

Packing group:

-

Hazard label:

2.1



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Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:	UN 1950
UN proper shipping name:	AEROSOLS, flammable
Transport hazard class(es):	2.1
Packing group:	-
Hazard label:	2.1

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Further information: see section 6, 7, 8

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

not applicable

15. Regulatory information**U.S. Regulations****National regulatory information**

SARA Section 311/312 Hazards:
Butane (106-97-8): Fire hazard
Propane (74-98-6): Fire hazard
Pentane (109-66-0): Fire hazard, Immediate (acute) health hazard
ethanol (64-17-5): Fire hazard

Clean Air Act Section 112(r):
Butane (106-97-8): Threshold quantities = 10,000 lbs.
Propane (74-98-6): Threshold quantities = 10,000 lbs.
Pentane (109-66-0): Threshold quantities = 10,000 lbs.

State Regulations**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on persistent organic pollutants: not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not applicable

16. Other information**Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	4
Physical Hazard:	1
Personal Protection:	B
Revision date:	06/28/2023
Revision No:	1,0

Abbreviations and acronyms

PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
CAS: Chemical Abstracts Service (division of the American Chemical Society)
ATE: Acute Toxicity Estimate
LD50: lethal dose, 50%
LC50: lethal concentration, 50%
EC50: half maximal effective concentration
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

VOC: volatile organic compound(s)

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. Restricted to professional users.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)