SAFETY DATA SHEET



Version #: 4,0

Issue date: 17-July-2020

Revision date: 14-November-2022 Supersedes date: 20-October-2021

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

1.1. Product identifier

Trade name or designation

of the mixture

BRAKLEEN PRO

Registration number

Product registration number

Denmark PR-3369357 P-638890 Norway **Synonyms** None.

BDS001856AE **Product code**

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

Identified uses Cleaners - Heavy duty

Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

CRC Industries Europe by Company name

Address Touwslagerstraat 1

> 9240 Zele Belgium

+32(0)52/45.60.11 **Telephone** +32(0)52/45.00.34 Fax E-mail hse@crcind.com Website www.crcind.com

1.4. Emergency telephone

number

Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

Austria National Poisons

Information Centre

+431 406 4343 (Available 24 hours a day.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day.)

Bulgaria National

Toxicological Information

Centre

+359 2 9154233 (Available 24 hours a day.)

Czech Republic National

Poisons Information

Centre

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided.)

Denmark National Poisons

Control Center

+45 82 12 12 12 (Available 24 hours a day.)

Estonia National Poisons

Information Centre

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed

on Sundays and on national holidays))

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day.)

France National Poisons

Control Center

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day.)

Hungary National

Emergency Phone Number

36 80 20 11 99 (Available 24 hours a day.)

Lithuania Neatidėliotina informacija apsinuodijus +370 5 236 20 52 or +37068753378 (Hours of operation not provided.)

Malta Accident and Emergency Department 2545 4030 (Hours of operation not provided.)

Netherlands National Poisons Information Center (NVIC)

030-274 88 88 (Only for the purpose of informing medical personnel in cases of

acute intoxications)

Norway Norwegian Poison

Information Center

22 59 13 00 (Available 24 hours a day.)

Portugal Poison Centre 800 250 250 (Available 24 hours a day.)

Romania Număr de telefon care poate fi apelat în caz

de urgență:

021 5992300, int. 291 Spitalul Clinic de Urgență București:

spital@urgentafloreasca.ro

0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Romania

Târgu Mureș: secretariat@spitjudms.ro

Slovakia National

Toxicological Information

Centre

+421 2 5477 4166 (Available 24 hours a day.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day.)

Switzerland Tox Info

145 (Available 24 hours a day.)

Suisse

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols Category 1 H222 - Extremely flammable

aerosol.

H229 - Pressurized container: May

burst if heated.

Health hazards

Skin corrosion/irritation H315 - Causes skin irritation. Category 2 Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single

exposure

Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

Environmental hazards

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

acetone; propan-2-one; propanone, Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% Contains:

n-hexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic, Propan-2-ol; Isopropyl alcohol;

Isopropanol



Signal word Danger

Hazard statements

Hazard pictograms

H222 Extremely flammable aerosol.

Pressurized container: May burst if heated. H229

Causes skin irritation. H315 Causes serious eye irritation. H319 May cause drowsiness or dizziness. H336

Toxic to aquatic life with long lasting effects. H411

Precautionary statements

Prevention

Keep out of reach of children. P102 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 Do not spray on an open flame or other ignition source. P211 Pressurised container: Do not pierce or burn, even after use. P251 Avoid breathing mist/vapours. P261 Use only outdoors or in a well-ventilated area. P271

Response Not assigned.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P410 + P412

Disposal

P501 Dispose of contents/container (in accordance with related regulations).

Supplemental label information Regulation (EC) No 648/2004 on detergents:

> aliphatic hydrocarbons > 30 % perfumes

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

> (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	25 - 50	- 921-024-6	01-2119475514-35	-	
Classification		2;H225, Skin Irrit. 2;l quatic Chronic 2;H41	H315, STOT SE 3;H336, As 1	р. Тох.	
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	25 - 50	- 927-510-4	01-2119475515-33	649-328-00-1	
Classification		2;H225, Skin Irrit. 2;l quatic Chronic 2;H41	H315, STOT SE 3;H336, As 1	р. Тох.	
acetone; propan-2-one; propanone	5 - 10	67-64-1 200-662-2	01-2119471330-49	606-001-00-8	#
Classification	on: Flam. Liq.	2;H225, Eye Irrit. 2;H	1319, STOT SE 3;H336		
Supplemental Haza Statement					
Carbon dioxide	5 - 10	124-38-9 204-696-9	-	-	#
Classification	on: Press. Gas	s;H280			
Propan-2-ol; Isopropyl alcohol; Isopropanol	5 - 10	67-63-0 200-661-7	01-2119457558-25	603-117-00-0	
Classification	on: Flam. Liq.	2;H225, Eye Irrit. 2;H	1319, STOT SE 3;H336		

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

The full text for all H-statements is displayed in section 16. **Composition comments**

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Material name: BRAKLEEN PRO - Manufacturers BDS001856AE Version #: 4,0 Revision date: 14-November-2022 Issue date: 17-July-2020 Eye contact

Ingestion

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

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

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures

Specific methods

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. In the

event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will spread on the water surface. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

7.3. Specific end use(s) Not available.

Material name: BRAKLEEN PRO - Manufacturers

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA (MAK)	200 ppm
Austria. MAK List, OEL Ordinance	• •	
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	MAK	1200 mg/m3
		500 ppm
	STEL	4800 mg/m3
		2000 ppm
Carbon dioxide (CAS 124-38-9)	Ceiling	18000 mg/m3
		10000 ppm
	MAK	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	MAK	500 mg/m3
		200 ppm
	STEL	2000 mg/m3
		800 ppm
Belgium. Exposure Limit Values		
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1187 mg/m3
		492 ppm
	TWA	594 mg/m3
		246 ppm
Carbon dioxide (CAS 124-38-9)	STEL	54784 mg/m3
		30000 ppm
	TWA	9131 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
·		400 ppm
	TWA	500 mg/m3
		200 ppm
Bulgaria. OELs. Regulation No 13 Components		risks of exposure to chemical agents at work Value
	Туре	
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1400 mg/m3
	TWA	600 mg/m3
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
,	TWA	980 mg/m3

Material name: BRAKLEEN PRO - Manufacturers

Components	Туре	Value
rcetone; propan-2-one; propanone (CAS 67-64-1)	MAC	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 24-38-9)	MAC	9000 mg/m3
,		5000 ppm
ropan-2-ol; Isopropyl Icohol; Isopropanol (CAS 7-63-0)	MAC	999 mg/m3
		400 ppm
	STEL	1250 mg/m3
		500 ppm
Cyprus. OELs. Control of factory atmo	osphere and dangerous su Type	bstances in factories regulation, PI 311/73, as amende Value
ropan-2-ol; Isopropyl Icohol; Isopropanol (CAS	TWA	980 mg/m3
57-63-0)		400 ppm
Szoch Bonublio OELo Covernment	looroo 361	.00 pp.111
Czech Republic. OELs. Government E Components	Type	Value
cetone; propan-2-one; ropanone (CAS 67-64-1)	Ceiling	1500 mg/m3
	TWA	800 mg/m3
carbon dioxide (CAS 24-38-9)	Ceiling	45000 mg/m3
	TWA	9000 mg/m3
ropan-2-ol; Isopropyl Icohol; Isopropanol (CAS 7-63-0)	Ceiling	1000 mg/m3
	TWA	500 mg/m3
Denmark. Exposure Limit Values Components	Туре	Value
cetone; propan-2-one;	TLV	600 mg/m3
ropanone (CAS 67-64-1)		Ç
		250 ppm
Carbon dioxide (CAS 24-38-9)	TLV	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl Icohol; Isopropanol (CAS 7-63-0)	TLV	490 mg/m3
,		200 ppm
estonia. OELs. Occupational Exposur Components	re Limits of Hazardous Sub Type	ostances (Regulation No. 105/2001, Annex), as amended Value
rcetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 24-38-9)	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl Ilcohol; Isopropanol (CAS 17-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm

inland. Workplace Expo omponents	Туре	Value
etone; propan-2-one; opanone (CAS 67-64-1)	STEL	1500 mg/m3
		630 ppm
	TWA	1200 mg/m3
		500 ppm
arbon dioxide (CAS 24-38-9)	TWA	9100 mg/m3
		5000 ppm
ropan-2-ol; Isopropyl cohol; Isopropanol (CAS 7-63-0)	STEL	620 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
rance omponents	Туре	Value
ydrocarbons, C6-C7, -alkanes,isoalkanes,cycli < 5% n-hexane	STEL c	1500 mg/m3
o / o i i i i i i i i i i i i i i i i i	TWA	1000 mg/m3
rance. OELs. Indicative omponents	Occupational Exposure Limits as Presc Type	cribed by Order of 30 June 2004, as amended Value
arbon dioxide (CAS 24-38-9)	VME	9000 mg/m3
- 1 00 0,		9000 mg/m3
•• •)		9000 mg/m3 5000 ppm
		•
	onal Exposure Limits as Prescribed by A Type	5000 ppm
rance. OELs. Occupation omponents cetone; propan-2-one;		5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended
rance. OELs. Occupatio omponents	Туре	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3
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ance. OELs. Occupation omponents etone; propan-2-one; opanone (CAS 67-64-1)	Type VLE VME	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm
rance. OELs. Occupation omponents cetone; propan-2-one; ropanone (CAS 67-64-1)	Type VLE	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm
rance. OELs. Occupation omponents cetone; propan-2-one; ropanone (CAS 67-64-1) rance. Threshold Limit omponents cetone; propan-2-one;	Type VLE VME Values (VLEP) for Occupational Exposu	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm
rance. OELs. Occupation omponents cetone; propan-2-one; ropanone (CAS 67-64-1) rance. Threshold Limit omponents cetone; propan-2-one; ropanone (CAS 67-64-1)	Type VLE VME Values (VLEP) for Occupational Exposu Type VLE	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm are to Chemicals in France, INRS ED 984 Value
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rance. OELs. Occupation omponents cetone; propan-2-one; ropanone (CAS 67-64-1) rance. Threshold Limit omponents cetone; propan-2-one; ropanone (CAS 67-64-1)	Type VLE VME Values (VLEP) for Occupational Exposu Type VLE Regulatory binding (VRC) Regulatory binding (VRC)	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm re to Chemicals in France, INRS ED 984 Value 2420 mg/m3 1000 ppm
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rance. OELs. Occupation omponents cetone; propan-2-one; ropanone (CAS 67-64-1) rance. Threshold Limit omponents cetone; propan-2-one; ropanone (CAS 67-64-1) Regulatory status: Regulatory status: Regulatory status: Regulatory status: arbon dioxide (CAS	Type VLE Values (VLEP) for Occupational Exposury Type VLE Regulatory binding (VRC) Regulatory binding (VRC) VME Regulatory binding (VRC) Regulatory binding (VRC) Regulatory binding (VRC)	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm re to Chemicals in France, INRS ED 984 Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 9000 mg/m3
rance. OELs. Occupation omponents cetone; propan-2-one; ropanone (CAS 67-64-1) rance. Threshold Limit omponents cetone; propan-2-one; ropanone (CAS 67-64-1) Regulatory status:	Type VLE Values (VLEP) for Occupational Exposurype VLE Regulatory binding (VRC) Regulatory binding (VRC) VME Regulatory binding (VRC)	5000 ppm 5000 ppm Art. R.4412-149 of Labor Code, as amended Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm re to Chemicals in France, INRS ED 984 Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm
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400 ppm

Regulatory status: Indicative	limit (VL)	
in the Work Area (DFG)	_	ation of Health Hazards of Chemical Compounds
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1200 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm
Germany - TRGS 900		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA	700 mg/m3
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	TWA	1500 mg/m3
Germany. TRGS 900, Limit Values i		
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	AGW	1200 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	AGW	9100 mg/m3
	4.014	5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	AGW	500 mg/m3
		200 ppm
Greece. OELs (Decree No. 90/1999,	as amended)	
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	3560 mg/m3
	TWA	1780 mg/m3
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		5000 ppm
	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
J. 30 0,		500 ppm
	TWA	980 mg/m3
		400 ppm
Hungary. OELs. Joint Decree on Ch Components	nemical Safety of Workplaces Type	Value
	TWA	
acetone; propan-2-one; propanone (CAS 67-64-1)		1210 mg/m3
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3

Material name: BRAKLEEN PRO - Manufacturers

Components	Туре	Value	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	STEL	1000 mg/m3	
·	TWA	500 mg/m3	
celand. OELs. Regulation 154/1999 Components	on occupational exposure I Type	imits Value	
acetone; propan-2-one; oropanone (CAS 67-64-1)	TWA	600 mg/m3	
		250 ppm	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
Propan-2-ol; Isopropyl	TWA	5000 ppm 490 mg/m3	
alcohol; Isopropanol (CAS 67-63-0)	TWA	490 Hig/ili3	
		200 ppm	
reland. Occupational Exposure Lir Components	nits Type	Value	
acetone; propan-2-one;	TWA	1210 mg/m3	
propanone (CAS 67-64-1)		500 ppm	
Carbon dioxide (CAS	TWA	9000 mg/m3	
124-38-9)		- -	
Propon 2 al- Joannanul	STEL	5000 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	SIEL	400 ppm	
	TWA	200 ppm	
taly. Occupational Exposure Limit Components	s Type	Value	
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Latvia. OELs. Occupational exposu Components	re limit values of chemical s Type	ubstances in work environment Value	
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	STEL	600 mg/m3	
	TWA	350 mg/m3	
Lithuania. OELs. Limit Values for	Chemical Substances, Gener Type	al Requirements Value	
Components	. , , , ,	7 41.0.0	

Components	Type	Value
		1000 ppm
	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
Luxembourg. Binding Occupational Components	exposure limit values (Ann Type	ex I), Memorial A Value
acetone; propan-2-one; oropanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
124-30-3)		5000 ppm
Malta. OELs. Occupational Exposur Schedules I and V)	e Limit Values (L.N. 227. of	Occupational Health and Safety Authority Act (CAP. 4
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Netherlands. OELs (binding)	Туре	Value
Components		
acetone; propan-2-one; oropanone (CAS 67-64-1)	STEL	2420 mg/m3
	TWA	1210 mg/m3
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
Norway. Administrative Norms for C	Contaminants in the Workni	200
Components	Type	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TLV	295 mg/m3
,		125 ppm
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3
,		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	TLV	245 mg/m3
67-63-0)		100 ppm
		on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1800 mg/m3

Components	Туре	Value
arbon dioxide (CAS 24-38-9)	STEL	27000 mg/m3
	TWA	9000 mg/m3
Propan-2-ol; Isopropyl	STEL	1200 mg/m3
alcohol; Isopropanol (CAS 67-63-0)		
,	TWA	900 mg/m3
Portugal. OELs. Decree-Law n. 29	0/2001 (Journal of the Republ	ic - 1 Series A, n.266)
Components	Туре	Value
cetone; propan-2-one; ropanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 24-38-9)	TWA	9000 mg/m3
,		5000 ppm
Portugal. VLEs. Norm on occupat		
Components	Туре	Value
ncetone; propan-2-one; propanone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Carbon dioxide (CAS 24-38-9)	STEL	30000 ppm
·	TWA	5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	STEL	400 ppm
67-63-0)	T\A/A	000
	TWA	200 ppm
Romania. OELs. Protection of wo components	rkers from exposure to chemic Type	cal agents at the workplace Value
cetone; propan-2-one;	TWA	1210 mg/m3
propanone (CAS 67-64-1)		
	- 7.4.4	500 ppm
Carbon dioxide (CAS 24-38-9)	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl	STEL	500 mg/m3
alcohol; Isopropanol (CAS 67-63-0)		
,		203 ppm
	TWA	200 mg/m3
		81 ppm
Slovakia. OELs. Regulation No. 30	00/2007 concerning protection	of health in work with chemical agents
Components	Type	Value
acetone; propan-2-one;	TWA	1210 mg/m3
propanone (CAS 67-64-1)		500
O-uk-u-di-uid (OAO	T\A/A	500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
71 -00 - 0)		400 ppm
		100 PPIII
	TWA	500 mg/m3

200 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm
Spain. Occupational Exposure Lim	its	
Components	Type	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9150 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
Sweden		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	STEL (STV)	300 ppm
•	TWA	200 ppm
	STEL (STV)	300 ppm
	STEL (STV) TWA	300 ppm 200 ppm
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment	TWA	200 ppm
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one;	TWA Authority (AV), Occupational Ex	200 ppm
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one;	TWA Authority (AV), Occupational Ex	200 ppm kposure Limit Values (AFS 2015:7) Value
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one;	TWA Authority (AV), Occupational Ex	200 ppm kposure Limit Values (AFS 2015:7) Value 1200 mg/m3
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one;	TWA Authority (AV), Occupational Ex Type STEL	200 ppm kposure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one; propanone (CAS 67-64-1) Carbon dioxide (CAS	TWA Authority (AV), Occupational Ex Type STEL	200 ppm kposure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm 600 mg/m3 250 ppm 18000 mg/m3
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one; propanone (CAS 67-64-1) Carbon dioxide (CAS	TWA Authority (AV), Occupational Ex Type STEL TWA STEL	200 ppm (posure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm 600 mg/m3 250 ppm 18000 mg/m3 10000 ppm
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one; propanone (CAS 67-64-1) Carbon dioxide (CAS	TWA Authority (AV), Occupational Ex Type STEL TWA	200 ppm Aposure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm 600 mg/m3 250 ppm 18000 mg/m3 10000 ppm 9000 mg/m3
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one; propanone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9)	TWA Authority (AV), Occupational Ex Type STEL TWA STEL TWA	200 ppm Aposure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm 600 mg/m3 250 ppm 18000 mg/m3 10000 ppm 9000 mg/m3 5000 ppm
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one; propanone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	TWA Authority (AV), Occupational Ex Type STEL TWA STEL	200 ppm Aposure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm 600 mg/m3 250 ppm 18000 mg/m3 10000 ppm 9000 mg/m3
n-alkanes, isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one; propanone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	TWA Authority (AV), Occupational Ex Type STEL TWA STEL TWA	200 ppm Aposure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm 600 mg/m3 250 ppm 18000 mg/m3 10000 ppm 9000 mg/m3 5000 ppm
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic Sweden. OELs. Work Environment Components acetone; propan-2-one; propanone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA Authority (AV), Occupational Ex Type STEL TWA STEL TWA	200 ppm (xposure Limit Values (AFS 2015:7) Value 1200 mg/m3 500 ppm 600 mg/m3 250 ppm 18000 mg/m3 10000 ppm 9000 mg/m3 5000 ppm 600 mg/m3

witzerland components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA	500 ppm
Switzerland. SUVA Grenzwerte an	n Arbeitsplatz	
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	2400 mg/m3
		1000 ppm
	TWA	1200 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
Draway O ale lagrague	OTEL	5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
UK. EH40 Workplace Exposure Li	mits (WELs)	
Components	Type	Value
acetone; propan-2-one; oropanone (CAS 67-64-1)	STEL	3620 mg/m3
		1500 ppm
	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m3
	T14/4	15000 ppm
	TWA	9150 mg/m3
Duaman O ali laanned	CTEL	5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1250 mg/m3
•		500 ppm
	TWA	999 mg/m3
		400 ppm
EU. Indicative Exposure Limit Val	ues in Directives 91/322/EEC, 2 Type	000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
ogical limit values Croatia. BLV. Dangerous Substan Components Value	ce Exposure Limit Values at W Determinant	orkplace, Annexes 4 (as amended) Specimen Sampling Time

Bio

acetone; propan-2-one; 20 mg/g Creatinine in Acetone propanone (CAS 67-64-1) urine 20 mg/l Acetone Blood 0,34 mmol/l Blood Acetone 39 mmol/mol Acetone Creatinine in urine

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)

Components	Value	Determinant	Specimen	Sampling Time	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	50 mg/l	Acetone	Blood	*	
	50 mg/l	Acetone	Urine	*	
	0,86 umol/l	Acetone	Urine	*	
	0,86 umol/l	Acetone	Blood	*	

^{* -} For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065) **Determinant** Sampling Time Components Value **Specimen** Acétone

acetone; propan-2-one; propanone (CAS 67-64-1)

100 mg/l

Germany, TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	25 mg/l	ACETON	Urine	*
	25 mg/l	ACETON	Blood	*

Urine

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	1380 µmol/l	Acetone	Urine	*
	80 mg/l	Acetone	Urine	*
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	430 μmol/l	Acetone	Urine	*
	25 mg/l	Acetone	Urine	*

^{* -} For sampling details, please see the source document.

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling Time	
acetone; propan-2-one; propanone (CAS 67-64-1)	53,36 mg/g	Acetone	Creatinine in urine	*	
	80 mg/l	Acetone	Urine	*	

^{* -} For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4 **Determinant** Specimen **Sampling Time** Components Value

acetone; propan-2-one;	50 mg/l	Acetona	Urine	*
propanone (CAS 67-64-1)	30 mg/i	Acciona	Offic	
propariono (or to or or i)				
Propan-2-ol; Isopropyl	40 mg/l	Acetona	Urine	*
alcohol; Isopropanol (CAS				

^{* -} For sampling details, please see the source document.

Switzerland, BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Determinant	Specimen	Sampling Time	
acetone; propan-2-one; propanone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	25 mg/l	ACETON	Urine	*	
	25 mg/l	ACETON	Blood	*	

^{* -} For sampling details, please see the source document.

67-63-0)

^{* -} For sampling details, please see the source document.

^{* -} For sampling details, please see the source document.

Derived no effect levels (DNELs)

General population

General population Components	Value		Assessment factor	Notes
acetone; propan-2-one; propanone (CAS 67-				
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Long-term, Systemic, Oral	62 mg/kg bw/d 200 mg/m3 62 mg/kg bw/d	•	20 5 2	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes	cyclics,< 5% n-h	exane (CAS -)		
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Long-term, Systemic, Oral	699 mg/kg bw 608 mg/m3 699 mg/kg bw	•		
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)			
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Long-term, Systemic, Oral	319 mg/kg bw 89 mg/m3 26 mg/kg bw/d	-	2 2 2	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
Workers				
Components	Value		Assessment factor	Notes
acetone; propan-2-one; propanone (CAS 67	-64-1)			
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Short-term, Local, Inhalation	186 mg/kg bw 1210 mg/m3 2420 mg/m3	/day		
Hydrocarbons, C6-C7, n-alkanes,isoalkanes	cyclics,< 5% n-h	exane (CAS -)		
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	773 mg/kg bw 2035 mg/m3	/day		
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)			
Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	888 mg/kg bw 500 mg/m3	/day	1	
dicted no effect concentrations (PNECs)				
Components	Value		Assessment factor	Notes
acetone; propan-2-one; propanone (CAS 67	-64-1)			
Freshwater Marine water Sediment (freshwater) Sediment (marine water) Soil STP	10,6 mg/l 1,06 mg/l 30,4 mg/kg 3,04 mg/kg 29,5 mg/kg 100 mg/l		50 500	
Propan-2-ol; Isopropyl alcohol; Isopropanol (•		10	
Freshwater Secondary poisoning Sediment (freshwater) Soil	140,9 mg/l 160 mg/kg 552 mg/kg 28 mg/kg		1 30	Oral
osure guidelines				
Cyprus OEL: Skin designation				
Propan-2-ol; Isopropyl alcohol; Isopropa (CAS 67-63-0)	inol	Can be abso	orbed through the skin.	
Propan-2-ol; Isopropyl alcohol; Isopropa (CAS 67-63-0) Hungary OELs: Skin designation			-	
Propan-2-ol; Isopropyl alcohol; Isopropa (CAS 67-63-0) Hungary OELs: Skin designation Propan-2-ol; Isopropyl alcohol; Isopropa (CAS 67-63-0)			orbed through the skin.	
Propan-2-ol; Isopropyl alcohol; Isopropa (CAS 67-63-0) Hungary OELs: Skin designation Propan-2-ol; Isopropyl alcohol; Isopropa	inol	Can be abso	-	
Propan-2-ol; Isopropyl alcohol; Isopropal (CAS 67-63-0) Hungary OELs: Skin designation Propan-2-ol; Isopropyl alcohol; Isopropal (CAS 67-63-0) Iceland OELs: Skin designation Propan-2-ol; Isopropyl alcohol; Isopropal	inol	Can be abso	orbed through the skin.	
Propan-2-ol; Isopropyl alcohol; Isopropal (CAS 67-63-0) Hungary OELs: Skin designation Propan-2-ol; Isopropyl alcohol; Isopropal (CAS 67-63-0) Iceland OELs: Skin designation Propan-2-ol; Isopropyl alcohol; Isopropal (CAS 67-63-0)	nnol nnol gnation	Can be abso	orbed through the skin.	

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

Skin protection

- Hand protection When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough

time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. For prolonged or repeated skin contact use suitable protective gloves. Full contact: Glove material: Neoprene. Use gloves

with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm.

Wear appropriate chemical resistant clothing. - Other

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with Respiratory protection

organic vapour cartridge and full facepiece. (Filter type AX)

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. Always observe good personal hygiene measures, such as washing

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid. **Form** Aerosol. Colour Not available. Odour Not available.

-94,7 °C (-138,5 °F) estimated Melting point/freezing point **Boiling point or initial boiling**

point and boiling range

56 - 99 °C (132,8 - 210,2 °F)

Not available. **Flammability**

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 2.5 % estimated 12,8 % estimated Explosive limit - upper

(%)

-26,0 °C (-14,8 °F) Flash point **Auto-ignition temperature** > 200 °C (> 392 °F) Not available.

Decomposition temperature Not applicable. pН Kinematic viscosity Not available

Solubility

Insoluble in water Solubility (water) **Partition coefficient** Not applicable.

(n-octanol/water) (log value)

Vapour pressure Not available.

Density and/or relative density

0,71 g/cm3 at 20°C Relative density

Vapour density 3 at 20°C Particle characteristics Not available.

9.2. Other information

No relevant additional information available. 9.2.1. Information with regard to physical hazard classes

9.2.2. Other safety characteristics

2,8 (Ether=1) **Evaporation rate** VOC 685 g/l

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid high temperatures.

10.5. Incompatible materials Strong oxidising agents. Aluminium. Chlorine. Isocyanates.

10.6. Hazardous Carbon oxides.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

11.1. Information on toxicological effects

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

Components Species Test Results

acetone; propan-2-one; propanone (CAS 67-64-1)

<u>Acute</u>

Dermal

LD50 Rat 15800 mg/kg

Inhalation

LC50 Rat 50,1 mg/l, 8 Hours

Oral

LD50 Rat 5800 mg/kg

Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane

Acute

Dermal

LD50 Rat 2920 mg/kg bw/day, 24 h

Inhalation

LC50 Rat 25200 mg/m³, 4 h

Oral

LD50 Rat 5840 mg/kg bw/day

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

<u>Acute</u>

Dermal

LD50 Rat 2920 mg/kg

Inhalation

LC50 Rat 23,3 mg/l

Oral

LD50 Rat 5840 mg/kg

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

<u>Acute</u>

Inhalation

LC50 Rat > 25000 mg/m3, 6 h

Skin corrosion/irritation Causes skin irritation.

Material name: BRAKLEEN PRO - Manufacturers

Serious eye damage/eye

irritation

Causes serious eye irritation.

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

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

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

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

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

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

Mixture versus substance

information

Not available.

11.2. Information on other hazards

Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Not available. Other information

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components **Species Test Results**

Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics, < 5% n-hexane

Aquatic

Acute

FC50 > 30 - < 100 mg/l, 72 h Algae Algae

Crustacea EC50 Daphnia 3 mg/l, 48 h LC50 Fish Fish 11,4 mg/l, 96 h

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

Aquatic

Acute

Crustacea EC50 Daphnia 3 mg/l, 48 hours Fish LC50 Fish > 13,4 mg/l, 96 hours

Chronic

Crustacea **NOEC** Daphnia 0,17 mg/l, 21 days

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Aquatic

Acute

Crustacea LC50 Brine shrimp (Artemia salina) > 10000 mg/l, 24 hours Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

12.2. Persistence and

No data is available on the degradability of any ingredients in the mixture.

degradability

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

-0,24acetone; propan-2-one; propanone 0,05 Propan-2-ol; Isopropyl alcohol; Isopropanol

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. assessment

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

The product contains volatile organic compounds which have a photochemical ozone creation 12.7. Other adverse effects

potential. GWP: 0

12.8. Additional information

Estonia Dangerous substances in soil Data

Propan-2-ol; Isopropyl alcohol; Isopropanol

(CAS 67-63-0)

Chemical pesticides (As the total sum of the active substances)

0,5 mg/kg

Chemical pesticides (As the total sum of the active substances) 20

mg/kg

Chemical pesticides (As the total sum of the active substances) 5

mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

The Waste code should be assigned in discussion between the user, the producer and the waste EU waste code

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents Disposal methods/information

> under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Dispose in accordance with all applicable regulations. Special precautions

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping

name

AEROSOLS, flammable

14.3. Transport hazard class(es)

2.1 Class

Subsidiary risk Not assigned.

Label(s) 2.1

Hazard No. (ADR) Not assigned.

Tunnel restriction code ADR/RID - Classification 5F

code:

14.4. Packing group Not assigned.

14.5. Environmental hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

2.1 Class

Subsidiary risk Not assigned. Not assigned. 14.4. Packing group

14.5. Environmental hazards Yes **ERG Code**

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

Material name: BRAKLEEN PRO - Manufacturers

IMDG

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable, Marine pollutant

name

14.3. Transport hazard class(es)
Class 2.1

Subsidiary risk Not assigned.

14.4. Packing group Not assigned.

14.5. Environmental hazards

Marine pollutant Yes EmS F-D, S-U

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Maritime transport in bulk Not established.

according to IMO instruments

ADR; IATA; IMDG



Marine pollutant



SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

acetone; propan-2-one; propanone (CAS 67-64-1)

Carbon dioxide (CAS 124-38-9)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see

https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

acetone; propan-2-one; propanone (CAS 67-64-1)

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

acetone; propan-2-one; propanone (CAS 67-64-1)

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,

labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

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

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

VOC: Volatile organic compounds. vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

Not available.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Product and Company Identification: Product Registration Numbers

SECTION 2: Hazards identification: Response

SECTION 2: Hazards identification: Supplemental label information Composition / Information on Ingredients: Disclosure Overrides

SECTION 8: Exposure controls/personal protection: Eye/face protection SECTION 8: Exposure controls/personal protection: - Hand protection SECTION 8: Exposure controls/personal protection: Respiratory protection

Physical & Chemical Properties: Multiple Properties

SECTION 12: Ecological information: 12,7. Other adverse effects Transport Information: Material Transportation Information

Training information Follow training instructions when handling this material.

Disclaimer

CRC Industries Europe byba cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's respectibility to ensure safe conditions for handling, storage and disposal of the

the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

Revision information

Material name: BRAKLEEN PRO - Manufacturers