

SAFETY DATA SHEET

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

OL.		of the substance/mixture and of the company/undertaking			
1.1.	1.1. Product identifier				
	Trade name or designation Contact Cleaner FPS of the mixture Contact Cleaner FPS				
Req	istration number	-			
-	onyms	None.			
-	duct code	BDS00082AE			
	e date	20-April-2021			
		•			
	sion number	01			
	Relevant identified uses of the Identified uses	he substance or mixture and uses advised against Cleaners - Precision			
	Uses advised against	None known.			
1.3.	Details of the supplier of the	safety data sheet			
	Company name	CRC Industries Europe bv			
	Address	Touwslagerstraat 1			
		9240 Zele			
		Belgium			
	Telephone	+32(0)52/45.60.11			
	Fax	+32(0)52/45.00.34			
	E-mail	hse@crcind.com			
		www.crcind.com			
	Website				
1.4. num	Emergency telephone	Tel.: +32(0)52/45.60.11 (office hours)			
nun	IDEI				
	General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	Austria National Poisons Information Centre	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	Belgium National Poisons Control Center	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	Bulgaria National Toxicological Information Centre	+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	Czech Republic National Poisons Information Centre	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)			
	Denmark National Poisons Control Center	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	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). SDS/Product information may not be available for the Emergency Service.)			
	Finland National Poison Information Center	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	France National Poisons Control Center	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	Hungary National Emergency Phone Number	36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)			
	Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)			
	Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)			

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. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Centre	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

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	Category 2	H315 - Causes skin irritation.
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, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

Hazard summary

Aerosol CONTENTS UNDER PRESSURE.

Pressurised container may explode when exposed to heat or flame. May cause drowsiness or dizziness. Causes serious eye irritation. Causes skin irritation. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.

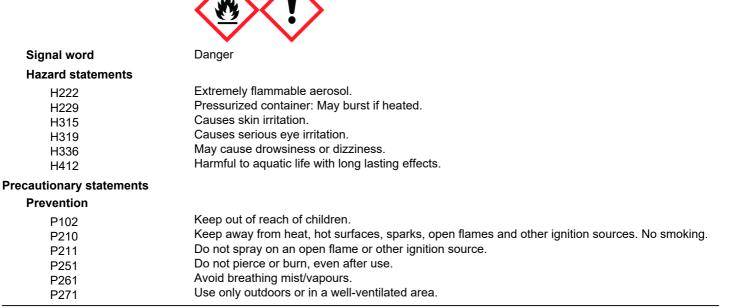
2.2. Label elements

Contains:

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, Propan-2-ol; Isopropyl alcohol; Isopropanol

Hazard pictograms



Response	Not assigned.
Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	Regulation (EC) No 648/2004 on detergents: aliphatic hydrocarbons 15-30%
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
Propan-2-ol; Isopropyl alcohol; Isopropanol	50 - 75	67-63-0 200-661-7	01-2119457558-25	603-117-00-0	
Classification	n: Flam. Liq. 2	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336		
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	0 - 25	EC921-024-6 -	01-2119475514-35	-	
Classification		2;H225, Skin Irrit. 2;H quatic Chronic 2;H41	1315, STOT SE 3;H336, Asp 1	o. Tox.	
Carbon dioxide	1 - 5	124-38-9 204-696-9	Exempt	-	#
	n: Press. Gas	NU200			

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

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.

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

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 meas	sures		
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.		
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.		
Eye contact	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.		
Ingestion	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	Alcohol resistant foam. 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	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.
Specific methods	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.

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	e (GwV), BGBI. II, no. 184/2001		
Components	Туре	Value	
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)	МАК	500 mg/m3	

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001 Components Type

oomponenta	туре	Value
		200 ppm
	STEL	2000 mg/m3
		800 ppm
Belgium. Exposure Limit Values		
Components	Туре	Value
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	on protection of workers aga	ainst risks of exposure to chemical agents at work
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm

Value

		5000 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
	TWA	980 mg/m3	

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Components Value

components	туре	value	
Carbon dioxide (CAS 124-38-9)	MAC	9000 mg/m3	
		5000 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	MAC	999 mg/m3	
		400 ppm	
	STEL	1250 mg/m3	
		500 ppm	

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA	980 mg/m3	
		400 ppm	
Czech Republic. OELs. Governme	ent Decree 361		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	Ceiling	45000 mg/m3	
	TWA	9000 mg/m3	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m3	
	TWA	500 mg/m3	

Denmark. Exposure Limit Values Components	Туре	Value
Carbon dioxide (CAS 24-38-9)	TLV	9000 mg/m3
24-30-37		5000 ppm
ropan-2-ol; Isopropyl Icohol; Isopropanol (CAS 7-63-0)	TLV	490 mg/m3
		200 ppm
Estonia. OELs. Occupational Expo Components	sure Limits of Hazardous Sub Type	ostances (Regulation No. 105/2001, Annex), as amende Value
Carbon dioxide (CAS	TWA	9000 mg/m3
24-38-9)		
		5000 ppm
Propan-2-ol; Isopropyl Icohol; Isopropanol (CAS i7-63-0)	STEL	600 mg/m3
,		250 ppm
	TWA	350 mg/m3
		150 ppm
Finland. Workplace Exposure Limi	ts	
Components	Туре	Value
Carbon dioxide (CAS 24-38-9)	TWA	9100 mg/m3
24-30-3)		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	STEL	620 mg/m3
67-63-0)		050
	T 14/A	250 ppm
	TWA	500 mg/m3
		200 ppm
France Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic	STEL	1500 mg/m3
s,< 5% n-hexane	TWA	1000 mg/m3
France. Threshold Limit Values (VI Components		ure to Chemicals in France, INRS ED 984 Value
Carbon dioxide (CAS	VME	9000 mg/m3
124-38-9)		·····
Regulatory status: Regulator	y indicative (VRI)	5000 ppm
Regulatory status: Regulator	y indicative (VRI)	Sooo ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	VLE	980 mg/m3
-	limit (VL)	
		400 ppm
Regulatory status: Indicative		
Germany. DFG MAK List (advisory n the Work Area (DFG)	OELs). Commission for the li	nvestigation of Health Hazards of Chemical Compound
. /	Туре	Value
Components	••	
Components Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m3

in the Work Area (DFG) Components	Туре	Value
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	TWA	500 mg/m3
		200 ppm
Germany - TRGS 900 Components	Туре	Value
lydrocarbons, C6-C7,	TWA	700 mg/m3
-alkanes,isoalkanes,cyclic ,< 5% n-hexane	TWA	700 mg/m3
Germany. TRGS 900, Limit Values		-
Components	Туре	Value
Carbon dioxide (CAS 24-38-9)	AGW	9100 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl Icohol; Isopropanol (CAS 7-63-0)	AGW	500 mg/m3
,		200 ppm
Greece. OELs (Decree No. 90/1999 Components	9, as amended) Type	Value
Carbon dioxide (CAS	STEL	54000 mg/m3
24-38-9)	STEL	5000 ppm
	T\A/A	
	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm
lungary. OELs. Joint Decree on (Shomical Safety of Workplace	
Components	Туре	Value
Carbon dioxide (CAS	TWA	9000 mg/m3
24-38-9)		acco mg/ma
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	STEL	1000 mg/m3
· · · · · · · · · · · · · · · · · · ·	TWA	500 mg/m3
celand. OELs. Regulation 154/199		-
Components	Type	Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		5000 ppm
Propan 2 al: Jaaprapyl	Τ \Λ/Λ	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	TWA	490 mg/m3
		200 ppm
reland. Occupational Exposure L		Malas
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm

Ireland. Occupational Exposure Limit Components	Туре	Value
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	400 ppm
<i>Ji</i> -03-0)	TWA	200 ppm
taly. Occupational Exposure Limits		
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	STEL	400 ppm
	TWA	200 ppm
atvia. OELs. Occupational exposure.	limit values of chemical s Type	ubstances in work environment Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)	1 4 4 / 1	-
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	STEL	600 mg/m3
	TWA	350 mg/m3
Lithuania. OELs. Limit Values for Che Components	emical Substances, Gener Type	al Requirements Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
_uxembourg. Binding Occupational e Components	xposure limit values (Ann Type	ex I), Memorial A Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)	TWA	9000 mg/m3
		5000 ppm
Schedules I and V)		Occupational Health and Safety Authority Act (CAP. 424)
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Netherlands. OELs (binding) Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
Norway. Administrative Norms for Co Components	ntaminants in the Workpla Type	ace Value
Carbon dioxide (CAS	TLV	9000 mg/m3
124-38-9)		-
		5000 ppm

Norway. Administrative Norms for Components	Contaminants in the Workp Type	olace Value
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TLV	245 mg/m3
,		100 ppm
concentrations and intensities of h	armful health factors in the	on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m3
	TWA	9000 mg/m3
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3
Portugal. OELs. Decree-Law n. 290 Components	/2001 (Journal of the Reput Type	olic - 1 Series A, n.266) Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		5000 ppm
Portugal. VLEs. Norm on occupation	-	
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Romania. OELs. Protection of work Components	kers from exposure to chem Type	nical agents at the workplace Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		5000
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	500 mg/m3
		203 ppm
	TWA	200 mg/m3
		81 ppm
Slovakia. OELs. Regulation No. 300 Components	0/2007 concerning protectic Type	on of health in work with chemical agents Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		5000 ppm
Propan-2-ol; Isopropyl	STEL	1000 mg/m3
alcohol; Isopropanol (CAS 67-63-0)	UTEL .	
		400 ppm
	TWA	500 mg/m3
		200 ppm
Slovenia. OELs. Regulations conce (Official Gazette of the Republic of		s against risks due to exposure to chemicals while working
Components	Туре	Value

Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3

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
		5000 ppm
Propan-2-ol; Isopropyl Ilcohol; Isopropanol (CAS 57-63-0)	TWA	500 mg/m3
,		200 ppm
pain. Occupational Exposure Lin		
Components	Туре	Value
Carbon dioxide (CAS 24-38-9)	TWA	9150 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	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
Sweden. OELs. Work Environmen Components	t Authority (AV), Occupational E Type	xposure Limit Values (AFS 2015:7) Value
Carbon dioxide (CAS 124-38-9)	STEL	18000 mg/m3
		10000 ppm
	TWA	9000 mg/m3
		5000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
Switzerland		
Components	Туре	Value
Hydrocarbons, C6-C7,	TWA	500 ppm
n-alkanes,isoalkanes,cyclic		000 pp
n-alkanes,isoalkanes,cyclic s,< 5% n-hexane		
n-alkanes,isoalkanes,cyclic s,< 5% n-hexane Switzerland. SUVA Grenzwerte am Components	n Arbeitsplatz Type	Value
-alkanes,isoalkanes,cyclic s,< 5% n-hexane Switzerland. SUVA Grenzwerte am Components Carbon dioxide (CAS	n Arbeitsplatz	Value 9000 mg/m3
n-alkanes,isoalkanes,cyclic s,< 5% n-hexane Switzerland. SUVA Grenzwerte am Components Carbon dioxide (CAS 124-38-9)	n Arbeitsplatz Type TWA	Value 9000 mg/m3 5000 ppm
	n Arbeitsplatz Type	Value 9000 mg/m3
n-alkanes,isoalkanes,cyclic s,< 5% n-hexane Switzerland. SUVA Grenzwerte am Components Carbon dioxide (CAS 124-38-9) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	n Arbeitsplatz Type TWA	Value 9000 mg/m3 5000 ppm
n-alkanes,isoalkanes,cyclic s,< 5% n-hexane Switzerland. SUVA Grenzwerte am Components Carbon dioxide (CAS 124-38-9) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	n Arbeitsplatz Type TWA	Value 9000 mg/m3 5000 ppm 1000 mg/m3

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m3
		15000 ppm
	TWA	9150 mg/m3
		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 Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Components Type Value

Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	

Biological limit values

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended) Components Value Determinant Specimen Sampling Time

Components	value	Determinant	Specimen	Sampling Time	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	50 mg/l	Acetone	Urine	*	
	50 mg/l	Acetone	Blood	*	
	0,86 umol/l	Acetone	Urine	*	
	0,86 umol/l	Acetone	Blood	*	
* - For sampling details, ple	ase see the source	e document.			
Germany. TRGS 903, BAT	List (Biological L	.imit Values)			
Components	Value	Determinant	Specimen	Sampling Time	
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.

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
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	25 µg/l	Acetone	Urine	*
	430 µmol/l	Acetone	Urine	*
* -				

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

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4ComponentsValueDeterminantSpecimenSampling Time

•			•		
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*	
* - For sampling details, ple	ase see the sour	ce document.			
Switzerland. BAT-Werte (Biological Limit	Values in the Workplac	e as per SUVA)		
Components	Value	Determinant	Specimen	Sampling Time	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	25 mg/l	ACETON	Urine	*	
	25 mg/l	ACETON	Blood	*	
* - For sampling details, ple	ase see the sour	ce document.			
ammanded manitaring	Follow stand	ard monitoring procedure			

Recommended monitoring Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population				
Components		Value	Assessment factor	Notes
Hydrocarbons, C6-C7, n-alk	anes,isoalkanes,	cyclics,< 5% n-hexane (CA	AS EC921-024-6)	
Long-term, Systemic, D Long-term, Systemic, In Long-term, Systemic, O	halation	699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day		
Propan-2-ol; Isopropyl alcoh	ol; Isopropanol (CAS 67-63-0)		
Long-term, Systemic, D Long-term, Systemic, In Long-term, Systemic, O	halation	319 mg/kg bw/day 89 mg/m3 26 mg/kg bw/day	2 2 2	Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
<u>Workers</u>				
Components		Value	Assessment factor	Notes
Hydrocarbons, C6-C7, n-alk	anes,isoalkanes,	cyclics,< 5% n-hexane (CA	AS EC921-024-6)	
Long-term, Systemic, D Long-term, Systemic, In		773 mg/kg bw/day 2035 mg/m3		
Propan-2-ol; Isopropyl alcoh	ol; Isopropanol (CAS 67-63-0)		
Long-term, Systemic, D Long-term, Systemic, In		888 mg/kg bw/day 500 mg/m3	1 1	
redicted no effect concentrat	ons (PNECs)			
Components		Value	Assessment factor	Notes
Propan-2-ol; Isopropyl alcoh	ol; Isopropanol (CAS 67-63-0)		
Freshwater Secondary poisoning Sediment (freshwater) Soil		140,9 mg/l 160 mg/kg 552 mg/kg 28 mg/kg	1 30	Oral
2. Exposure controls		0 0		
ppropriate engineering ontrols	applicable, us maintain airb	se process enclosures, loc orne levels below recomm	al exhaust ventilation, or ot ended exposure limits. If ex	be matched to conditions. If her engineering controls to posure limits have not been de eyewash station and safety
dividual protection measures	s, such as perso	onal protective equipmen	t	
General information				n equipment should be chose r 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	time of the gl the breakthro skin contact u	ove should be longer than ugh time, gloves should be use suitable protective glov	the total duration of produc e changed part-way throug	ard EN 374). The breakthrou t use. If work lasts longer tha h. For prolonged or repeated terial: nitrile. Use gloves with mm.
- Other	Wear approp	riate chemical resistant clo	thing.	
Respiratory protection	In case of ins organic vapo	ufficient ventilation, wear s ur cartridge and full facepie	uitable respiratory equipme ece. (Filter type AX)	ent. Chemical respirator with
Thermal hazards	Wear approp	riate thermal protective clo	thing, when necessary.	
ygiene measures	after handling	to not smoke. Always obse the material and before e	ating, drinking, and/or smo	e measures, such as washing king. Routinely wash work

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.

clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Aerosol
Colour	Colourless.

Odour	Solvent.
Melting point/freezing point	-88,5 °C (-127,3 °F) estimated
Boiling point or initial boiling point and boiling range	60 - 95 °C (140 - 203 °F)
Flammability (solid, gas)	Not available.
Upper/lower flammability or ex	plosive limits
Flammability limit - lower (%)	2,5 % estimated
Flammability limit - upper (%)	12 % estimated
Flash point	< 0 °C (< 32,0 °F) Closed cup
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not available.
рН	Not applicable.
Solubility(ies)	
Solubility (water)	Insoluble in water
Vapour pressure	2967,6 hPa estimated
Vapour density	Not available.
Relative density	0,76 g/cm3
Relative density temperature	20 °C (68 °F)
Particle characteristics	Not available.
9.2 Other safety characteristics	
Chemical family	Cleaner
Explosive properties	Not explosive.
Heat of combustion (NFPA 30B)	19,89 kJ/g estimated
Oxidising properties	Not oxidising.
VOC	725 g/l
SECTION 10. Stability an	d reactivity

SECTION 10: Stability and reactivity

10.1. Reactivity	The 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	Acids. Strong oxidising agents. Chlorine. Isocyanates.
10.6. Hazardous decomposition products	Carbon oxides.

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 Classification based on calculation method. Based on available data, the classification criteria are not met.

Product	Species	Test Results	
Contact Cleaner FPS			
Acute			
Dermal			
LD50	Rabbit	4409 mg/kg	
Inhalation			
LC50	Rat	54974 mg/m³, 4 h	
Oral			
LD50	Rat	6370 mg/kg bw/day	
Components	Species	Test Results	
Hydrocarbons, C6-C7, n-alkanes,	isoalkanes,cyclics,< 5% n-hexane		
Acute			
Dermal			
Liquid			
LD50	Rat	2920 mg/kg bw/day, 24 h	
Inhalation			
Vapour	5.		
LC50	Rat	25200 mg/m³, 4 h	
Oral			
Liquid			
LD50	Rat	5840 mg/kg bw/day	
Propan-2-ol; Isopropyl alcohol; Iso	opropanol (CAS 67-63-0)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	12800 mg/kg	
Inhalation			
LC50	Rat	> 25000 mg/m3, 6 h	
Oral			
LD50	Rat	4,7 g/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory sensitisation	Based on available data, the classification cri	teria 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.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
Hungary. 26/2000 EüM Ord (as amended)	inance on protection against and preventing	risk relating to exposure to carcinogens at work	
Not listed.			
Reproductive toxicity	Based on available data, the classification cri	teria are not met.	
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.		
Specific target organ toxicity - repeated exposure	Based on available data, the classification cri	teria are not met.	
Aspiration hazard	Not likely, due to the form of the product.		
Mixture versus substance	Not available.		
information			
11.2. Information on other haza			
Endocrine disrupting properties		nsidered to have endocrine disrupting properties n (EU) 2017/2100 or Commission Regulation (EU)	
Other information	Not available.		
SECTION 12: Ecological i	nformation		
12.1 Toxicity	Harmful to aquatic life with long lasting effects		

Harmful to aquatic life with long lasting effects.

omponents Species		Species		Test Results
Hydrocarbons, C6-C7, n-alkanes,	isoalkanes,c	yclics,< 5% n-hexan	e	
Aquatic				
Acute				
Algae	EC50	Algae		30 - 100 mg/l, 72 h
Crustacea	EC50	Daphnia		3 mg/l, 48 h
Fish	LC50	Fish		11,4 mg/l, 96 h
Propan-2-ol; Isopropyl alcohol; Iso	opropanol (C	AS 67-63-0)		
Aquatic Acute				
Crustacea	LC50	Brine shrimp (Artemia salina)	> 10000 mg/l, 24 hours
Fish	LC50		nis macrochirus)	> 1400 mg/l, 96 hours
12.2. Persistence and		U ()	,	edients in the mixture.
degradability	no data k		gradubility of any high	
12.3. Bioaccumulative potential				
Partition coefficient n-octanol/water (log Kow) Propan-2-ol; Isopropyl alcoho	ol; Isopropan	ol	0,05	
Bioconcentration factor (BCF)	Not availa	ble.		
12.4. Mobility in soil	No data a	vailable.		
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.			
12.6. Endocrine disrupting properties	None kno	None known		
12.7. Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.			
12.8. Additional information				
Estonia Dangerous substa	nces in soil	Data		
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)		opanol	0,5 mg/kg	(As the total sum of the active substances) (As the total sum of the active substances) 24
			mg/kg	(As the total sum of the active substances) 5

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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents 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.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard class	UN1950 AEROSOLS
14.5. Transport nazaru ciass	(63)
Class	2.1
Subsidiary risk	-
Hazard No. (ADR)	Not available.
Tunnel restriction code	(D)

ADR/RID - Classification 5F code: Not applicable 14.4. Packing group 14.5. Environmental hazards No 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user ΙΑΤΑ 14.1. UN number UN1950 **AEROSOLS** 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 21 Subsidiary risk Not applicable 14.4. Packing group 14.5. Environmental hazards No 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user IMDG UN1950 14.1. UN number AEROSOLS 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class 21 Subsidiary risk Not applicable 14.4. Packing group 14.5. Environmental hazards Marine pollutant No EmS F-D. S-U Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user 14.7. Maritime transport in bulk Not established. according to IMO instruments

ADR; IATA; IMDG



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 Not listed.

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 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

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

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	This safety data sheet conforms to the following laws, regulations and standards: This safety data sheet conforms to the following laws, regulations and standards: Act on the management of packaging and packaging waste of June 13, 2013 Regulation of the Minister of Health of June 11, 2012 on the categories of dangerous substances and dangerous preparations whose packaging should be fitted with child-resistant closures and a tactile warning of danger REGULATION OF THE MINISTER OF HEALTH of February 2, 2011 on tests and measurements of factors harmful to health in working environments Regulation of Ministry of Labor and Social Policy of June 6, 2014. On the matter of maximum permissible concentrations and intensities of harmful factors in the work environment (Journal of Laws 2014, item. 817) Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices Decree No. 25/2000. (IX. 30.) EüM-SzCsM of the Minister of Health and the Minister of Social and Family Affairs on chemical safety at work Act No. 93 of 1993 on Labour Safety (1993.évi XCIII.), as amended Government Decree No. 220 of 2004 (VII. 21.) providing rules on the protection of surface waters quality Government Decree No. 98/2001 (VI. 15.), on the conditions of the activities related to hazardous waste, and Ministry of Environmental Affairs Decree No. 16/2001 (VII. 18.), on the register of waste s Public Act No. XXV of 2000 on Chemical Safety, and Application Decree No. 44/2000. (XII.27.) EüM [of the Ministry of Health] Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety	No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

List of appreviations	
	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.
References	Not available.
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 H-statements 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. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
Revision information	None.
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 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.