



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

1.1. Product identifier

Trade name or designation of the mixture SOLVENT 50 SUPER

Registration number -

Synonyms None.

Product code BDS000817AE

Issue date 18-March-2021

Version number 01

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

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

Website www.crcind.com

1.4. Emergency telephone number Tel.: +32(0)52/45.60.11 (office hours)

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.

Skin sensitisation

Category 1B

H317 - May cause an allergic skin reaction.

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 2

H411 - Toxic 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. May cause an allergic skin reaction. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

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

Contains:

Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, p-mentha-1,4(8)-diene

Hazard pictograms



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.

P251
P261
P271
P280

Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

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%
perfumes: Citral, d-limonene

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
ethanol; ethyl alcohol	25 - 50	64-17-5 200-578-6	01-2119457610-43	603-002-00-5	
Classification: Flam. Liq. 2;H225, Eye Irrit. 2;H319					
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	10 - 25	EC921-024-6 -	01-2119475514-35	-	
Classification: Flam. Liq. 2;H225, Skin Irrit. 2;H315, STOT SE 3;H336, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
p-mentha-1,4(8)-diene	10 - 25	586-62-9 209-578-0	01-2119982325-32	-	
Classification: Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
3-butoxypropan-2-ol; propylene glycol monobutyl ether	0 - 20	5131-66-8 225-878-4	01-2119475527-28	603-052-00-8	
Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319					
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	5 - 10	EC926-605-8 -	01-2119486291-36	-	
Classification: Flam. Liq. 2;H225, STOT SE 3;H336, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Carbon dioxide	1 - 5	124-38-9 204-696-9	Exempt	-	#
Classification: Press. Gas;H280					

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. Wash contaminated clothing before reuse.

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.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

Ingestion

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. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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. Use water spray to reduce vapours or divert vapour cloud drift. 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

Components	Type	Value
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	TWA (MAK)	200 ppm
p-mentha-1,4(8)-diene (CAS 586-62-9)	STEL	560 mg/m ³

TWA (MAK)

560 mg/m³

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	Ceiling	18000 mg/m ³
		10000 ppm
	MAK	9000 mg/m ³
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	3800 mg/m ³
		2000 ppm
	MAK	1900 mg/m ³
		1000 ppm

Belgium. Exposure Limit Values

Components

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54784 mg/m ³
		30000 ppm
	TWA	9131 mg/m ³
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1907 mg/m ³
		1000 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m ³

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

Components

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	MAC	9000 mg/m ³
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	MAC	1900 mg/m ³
		1000 ppm

Czech Republic. OELs. Government Decree 361

Components

Components	Type	Value
3-butoxypropan-2-ol; propylene glycol monobutyl ether (CAS 5131-66-8)	Ceiling	550 mg/m ³
	TWA	270 mg/m ³
Carbon dioxide (CAS 124-38-9)	Ceiling	45000 mg/m ³

Czech Republic. OELs. Government Decree 361

Components	Type	Value
	TWA	9000 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3

Denmark

Components	Type	Value
p-mentha-1,4(8)-diene (CAS 586-62-9)	TLV	280 mg/m3
	TWA	140 mg/m3

Denmark. Exposure Limit Values

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	TLV	5000 ppm 1900 mg/m3 1000 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
	TWA	1000 ppm 1000 mg/m3 500 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m3 5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	2500 mg/m3
	TWA	1300 ppm 1900 mg/m3 1000 ppm

France

Components	Type	Value
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic s, < 5% n-hexane	STEL	1500 mg/m3
	TWA	1000 mg/m3

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	VME	9000 mg/m3
Regulatory status:	Regulatory indicative (VRI)	5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	VLE	9500 mg/m3
Regulatory status:	Indicative limit (VL)	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
		5000 ppm
Regulatory status: Indicative limit (VL)		
	VME	1900 mg/m3
Regulatory status: Indicative limit (VL)		
		1000 ppm
Regulatory status: Indicative limit (VL)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	380 mg/m3
		200 ppm

Germany - TRGS 900

Components	Type	Value
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic s, < 5% n-hexane	TWA	700 mg/m3

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	AGW	9100 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	AGW	380 mg/m3
		200 ppm

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		5000 ppm
	TWA	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	3800 mg/m3
	TWA	1900 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm

Italy. Occupational Exposure Limits

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

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

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

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

Netherlands. OELs (binding)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
	TWA	260 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TLV	950 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace Components**Type****Value**

500 ppm

Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**Components****Type****Value**Carbon dioxide (CAS
124-38-9)

STEL

27000 mg/m³

TWA

9000 mg/m³ethanol; ethyl alcohol (CAS
64-17-5)

TWA

1900 mg/m³**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)****Components****Type****Value**Carbon dioxide (CAS
124-38-9)

TWA

9000 mg/m³

5000 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**Components****Type****Value**Carbon dioxide (CAS
124-38-9)

STEL

30000 ppm

TWA

5000 ppm

ethanol; ethyl alcohol (CAS
64-17-5)

TWA

1000 ppm

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**Components****Type****Value**Carbon dioxide (CAS
124-38-9)

TWA

9000 mg/m³

5000 ppm

ethanol; ethyl alcohol (CAS
64-17-5)

STEL

9500 mg/m³

5000 ppm

TWA

1900 mg/m³

1000 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**Components****Type****Value**Carbon dioxide (CAS
124-38-9)

TWA

9000 mg/m³

5000 ppm

ethanol; ethyl alcohol (CAS
64-17-5)

STEL

1920 mg/m³

1000 ppm

TWA

960 mg/m³

500 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****Type****Value**Carbon dioxide (CAS
124-38-9)

TWA

9000 mg/m³

5000 ppm

ethanol; ethyl alcohol (CAS
64-17-5)

TWA

960 mg/m³

500 ppm

Spain. Occupational Exposure Limits**Components****Type****Value**Carbon dioxide (CAS
124-38-9)

TWA

9150 mg/m³

Spain. Occupational Exposure Limits Components**Type****Value**

ethanol; ethyl alcohol (CAS 64-17-5)	STEL	5000 ppm 1910 mg/m3
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Sweden Components**Type****Value**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic s, < 5% n-hexane	STEL (STV)	300 ppm
	TWA	200 ppm
p-mentha-1,4(8)-diene (CAS 586-62-9)	STEL (STV)	300 mg/m3
	TWA	150 mg/m3

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**Components****Type****Value**

Carbon dioxide (CAS 124-38-9)	STEL	18000 mg/m3
		10000 ppm
	TWA	9000 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	5000 ppm 1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm

Switzerland Components**Type****Value**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic s, < 5% n-hexane	TWA	500 ppm
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Switzerland. SUVA Grenzwerte am Arbeitsplatz**Components****Type****Value**

Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1920 mg/m3
		1000 ppm
	TWA	960 mg/m3
		500 ppm

UK. EH40 Workplace Exposure Limits (WELs)**Components****Type****Value**

Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m3
		15000 ppm
	TWA	9150 mg/m3
		5000 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1920 mg/m3
		1000 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
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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
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5000 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes
3-butoxypropan-2-ol; propylene glycol monobutyl ether (CAS 5131-66-8)			
Long-term, Systemic, Dermal	22 mg/kg bw/day	28	Repeated dose toxicity
Long-term, Systemic, Inhalation	43 mg/m3	7	Repeated dose toxicity
Long-term, Systemic, Oral	12,5 mg/kg bw/day	28	Repeated dose toxicity
ethanol; ethyl alcohol (CAS 64-17-5)			
Long-term, Systemic, Dermal	206 mg/kg bw/day	40	Repeated dose toxicity
Long-term, Systemic, Oral	87 mg/kg bw/day	20	Repeated dose toxicity
Short-term, Local, Inhalation	950 mg/m3		respiratory tract irritation
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane (CAS EC926-605-8)			
Long-term, Systemic, Dermal	1377 mg/kg bw/day		
Long-term, Systemic, Inhalation	1131 mg/m3		
Long-term, Systemic, Oral	1301 mg/kg bw/day		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (CAS EC921-024-6)			
Long-term, Systemic, Dermal	699 mg/kg bw/day		
Long-term, Systemic, Inhalation	608 mg/m3		
Long-term, Systemic, Oral	699 mg/kg bw/day		
Propane, oxybis(methoxy- (CAS 111109-77-4)			
Long-term, Systemic, Dermal	5,26 mg/kg bw/day	2	Repeated dose toxicity
Long-term, Systemic, Inhalation	15,8 mg/m3	2	Repeated dose toxicity
Long-term, Systemic, Oral	1,67 mg/kg bw/day	600	Repeated dose toxicity

Workers

Components	Value	Assessment factor	Notes
3-butoxypropan-2-ol; propylene glycol monobutyl ether (CAS 5131-66-8)			
Long-term, Systemic, Dermal	52 mg/kg bw/day	16,8	Repeated dose toxicity
Long-term, Systemic, Inhalation	147 mg/m3	4,2	Repeated dose toxicity
ethanol; ethyl alcohol (CAS 64-17-5)			
Long-term, Systemic, Dermal	343 mg/kg bw/day	24	Repeated dose toxicity
Long-term, Systemic, Inhalation	950 mg/m3		
Short-term, Local, Inhalation	1900 mg/m3		respiratory tract irritation
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane (CAS EC926-605-8)			
Long-term, Systemic, Dermal	13964 mg/kg bw/day		
Long-term, Systemic, Inhalation	5306 mg/m3		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (CAS EC921-024-6)			
Long-term, Systemic, Dermal	773 mg/kg bw/day		
Long-term, Systemic, Inhalation	2035 mg/m3		
Propane, oxybis(methoxy- (CAS 111109-77-4)			
Long-term, Systemic, Dermal	22,1 mg/kg bw/day	1	Repeated dose toxicity
Long-term, Systemic, Inhalation	133 mg/m3	5	

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
3-butoxypropan-2-ol; propylene glycol monobutyl ether (CAS 5131-66-8)			
Freshwater	0,525 mg/l	1000	
Sediment (freshwater)	2,36 mg/kg		
Soil	0,16 mg/kg		
ethanol; ethyl alcohol (CAS 64-17-5)			
Freshwater	0,96 mg/l	10	
Sediment (marine water)	2,9 mg/kg		
Soil	0,63 mg/kg	1000	
Propane, oxybis(methoxy- (CAS 111109-77-4)			
Freshwater	1 mg/l	10	
Soil	0,1 mg/kg	100	

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 equipment.

Eye/face protection

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. Suitable gloves can be recommended by the glove supplier. Full contact: Glove material: nitrile. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm.

- Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A or 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. Contaminated work clothing should not be allowed out of the workplace.

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	Colourless to yellow.
Odour	Characteristic odor.
Melting point/freezing point	-114,1 °C (-173,4 °F) estimated
Boiling point or initial boiling point and boiling range	60 - 195 °C (140 - 383 °F)
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	1,8 % estimated
Flammability limit - upper (%)	12 % estimated
Flash point	-35,0 °C (-31,0 °F) Closed cup
Auto-ignition temperature	200 °C (392 °F)
Decomposition temperature	Not available.
pH	Not applicable.
Solubility(ies)	
Solubility (water)	Insoluble in water
Partition coefficient (n-octanol/water)	Not available.
Vapour pressure	2589 hPa estimated
Vapour density	Not available.
Relative density	0,81 g/cm ³
Relative density temperature	20 °C (68 °F)
Particle characteristics	Not available.

9.2 Other safety characteristics

Chemical family	Cleaner
Evaporation rate	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
VOC	784 g/l

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	Strong oxidising agents.
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. May cause an allergic skin reaction.
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. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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
SOLVENT 50 SUPER		
Acute		
Dermal		
LD50	Rat	4006 mg/kg
Inhalation		
LC50	Rat	87500 mg/m ³ , 4 h
Oral		
LD50	Rabbit	170 g/kg
	Rat	10139 mg/kg bw/day
Components		
Species		
Test Results		
3-butoxypropan-2-ol; propylene glycol monobutyl ether (CAS 5131-66-8)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC0	Rat	> 3,5 mg/l, 4 h
Oral		
LD50	Rat	3300 mg/kg
ethanol; ethyl alcohol (CAS 64-17-5)		
Acute		
Dermal		
LD50	Rabbit	> 15800 mg/kg

Components	Species	Test Results
Inhalation		
LC50	Rat	116,8 - 133,8 mg/l, 4 h
Oral		
LD50	Rat	10470 mg/kg
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 20 mg/l, 4 h
Oral		
LD50	Rat	> 3350 mg/kg
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane		
Acute		
Dermal		
<i>Liquid</i>		
LD50	Rat	2920 mg/kg bw/day, 24 h
Inhalation		
<i>Vapour</i>		
LC50	Rat	25200 mg/m ³ , 4 h
Oral		
<i>Liquid</i>		
LD50	Rat	5840 mg/kg bw/day
p-mentha-1,4(8)-diene (CAS 586-62-9)		
Acute		
Dermal		
<i>Liquid</i>		
LD50	Rabbit	> 4300 mg/kg
Oral		
<i>Liquid</i>		
LD50	Rat	3740 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
Skin sensitisation	May cause an allergic skin reaction.	
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 Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)		
Not listed.		
Reproductive toxicity	Based on available data, the classification criteria 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 criteria are not met.	
Aspiration hazard	Not likely, due to the form of the product.	
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.	
Other information	Not available.	

SECTION 12: Ecological information

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

Components		Species	Test Results
3-butoxypropan-2-ol; propylene glycol monobutyl ether (CAS 5131-66-8)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	> 1000 mg/l, 96 h
Fish	LC50	Fish	560 - 1000 mg/l, 96 h
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane			
Aquatic			
<i>Acute</i>			
Algae	NOEC	Algae	30 mg/l, 72 h
Crustacea	EC50	Daphnia	3 mg/l, 48 h
Fish	LC50	Fish	12 mg/l, 96 h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane			
Aquatic			
<i>Acute</i>			
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
p-mentha-1,4(8)-diene (CAS 586-62-9)			
Aquatic			
<i>Acute</i>			
Algae	EC10	Algae	0,273 mg/l, 72 h
	EC50	Algae	0,692 mg/l, 72 h
Crustacea	EC50	Daphnia	0,634 mg/l, 48 h
Fish	LC50	Fish	0,805 mg/l, 96 h

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

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

ethanol; ethyl alcohol	-0,31
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	< 4
p-mentha-1,4(8)-diene	4,47

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

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 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 substances in soil Data

ethanol; ethyl alcohol (CAS 64-17-5)	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.

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** UN1950
14.2. UN proper shipping name AEROSOLS
14.3. Transport hazard class(es)
Class 2.1
Subsidiary risk -
Hazard No. (ADR) Not available.
Tunnel restriction code (D)
ADR/RID - Classification code: 5F
14.4. Packing group Not applicable
14.5. Environmental hazards No
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

- 14.1. UN number** UN1950
14.2. UN proper shipping name AEROSOLS
14.3. Transport hazard class(es)
Class 2.1
Subsidiary risk -
14.4. Packing group Not applicable
14.5. Environmental hazards No
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

- 14.1. UN number** UN1950
14.2. UN proper shipping name AEROSOLS
14.3. Transport hazard class(es)
Class 2.1
Subsidiary risk -
14.4. Packing group Not applicable
14.5. Environmental hazards
Marine pollutant No
EmS F-D, S-U
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
14.7. Maritime transport in bulk according to IMO instruments Not established.

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

ethanol; ethyl alcohol (CAS 64-17-5)

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

ethanol; ethyl alcohol (CAS 64-17-5)

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 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.

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

References

Information on evaluation method leading to the classification of mixture

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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

None.

Revision information

Training information

Follow training instructions when handling this material.

Disclaimer

CRC Industries Europe bvba 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.