

# SAFETY DATA SHEET

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Lieferant | Supplier:

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

1.1. Product identifier

Trade name or designation

of the mixture

LABEL OFF 50

Registration number

UFI:

Austria: 5K2X-285Q-9000-EPUV

Belgium: 5K2X-285Q-9000-EPUV Bulgaria: 5K2X-285Q-9000-EPUV Croatia: 5K2X-285Q-9000-EPUV Cyprus: 5K2X-285Q-9000-EPUV

Czech Republic: 5K2X-285Q-9000-EPUV Denmark: 5K2X-285Q-9000-EPUV Estonia: 5K2X-285Q-9000-EPUV EU: 5K2X-285Q-9000-EPUV Finland: 5K2X-285Q-9000-EPUV France: 5K2X-285Q-9000-EPUV Germany: 5K2X-285Q-9000-EPUV Great Britain: 5K2X-285Q-9000-EPUV Greece: 5K2X-285Q-9000-EPUV Hungary: 5K2X-285Q-9000-EPUV Iceland: 5K2X-285Q-9000-EPUV Italy: 5K2X-285Q-9000-EPUV Latvia: 5K2X-285Q-9000-EPUV Lithuania: 5K2X-285Q-9000-EPUV

Luxembourg: 5K2X-285Q-9000-EPUV Malta: 5K2X-285Q-9000-EPUV Netherlands: 5K2X-285Q-9000-EPUV Norway: 5K2X-285Q-9000-EPUV Poland: 5K2X-285Q-9000-EPUV Portugal: 5K2X-285Q-9000-EPUV Romania: 5K2X-285Q-9000-EPUV Slovakia: 5K2X-285Q-9000-EPUV Slovenia: 5K2X-285Q-9000-EPUV

Spain: 5K2X-285Q-9000-EPUV Sweden: 5K2X-285Q-9000-EPUV

**Synonyms** None.

**Product code** BDS001045AE

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

Cleaners - Precision Identified uses

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries Europe by

Touwslagerstraat 1 **Address** 

> 9240 Zele Belaium

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

1.4. Emergency telephone

number

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

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.)

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**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 Hungary National** 

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.)

**Emergency Phone Number** Lithuania Neatidėliotina

36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

informacija apsinuodijus Malta Accident and **Emergency Department** 

+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

**Netherlands National Poisons Information** 

available for the Emergency Service.) 030-274 88 88 (Only for the purpose of informing medical personnel in cases of

2545 4030 (Hours of operation not provided. SDS/Product information may not be

Center (NVIC) **Norway Norwegian Poison**  acute intoxications)

Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Portugal Poison Centre** 

800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Romania Număr de telefon care poate fi apelat în caz

021 5992300, int. 291 Spitalul Clinic de Urgență București: spital@urgentafloreasca.ro

de urgență: Romania

0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Târgu Mures: secretariat@spitjudms.ro

**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.)

**Switzerland Tox Info** Suisse

145 (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.

Skin sensitisation Category 1 H317 - May cause an allergic skin

reaction.

Specific target organ toxicity - single

exposure

Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

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#### **Environmental hazards**

Hazardous to the aquatic environment, long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

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

C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, Orange, sweet, extract

**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.
H336 May cause drowsiness or dizziness.
Taxio to agretic life with long leating a

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 Do not pierce or burn, even after use.

P261 Avoid breathing mist/vapours.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves.

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 > 30 %

perfumes: 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
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	25 - 50 EC921-024-6 01-2119475514-35 - 921-024-6			-	
Classification		2;H225, Skin Irrit. 2;F quatic Chronic 2;H41	H315, STOT SE 3;H336, As <sub>l</sub> 1	р. Тох.	
Cyclohexane	10 - <25	110-82-7 203-806-2	01-2119463273-41	601-017-00-1	#
Classification	•		H315, STOT SE 3;H336, As Aquatic Chronic 1;H410	р. Тох.	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	10 - 25	EC919-857-5 919-857-5	01-2119463258-33	-	

Classification: Flam. Liq. 3;H226, STOT SE 3;H336, Asp. Tox. 1;H304

Chemical name	%	CAS-No. / EC No.	. REACH Registration No.	Index No.	Notes
Orange, sweet, extract	10 - 25	8028-48-6 232-433-8	01-2119493353-35	-	
Classific		3;H226, Skin Irrit. 2; quatic Chronic 2;H41	H315, Skin Sens. 1;H317, As l1	p. Tox.	
Carbon dioxide	1 - 5	124-38-9 204-696-9	-	-	#
Classific	ation: Press. Ga	s;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** Rinse with water. 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. 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

Foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing

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

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. For personal protection, see section 8 of the SDS.

personal protection

**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 Ordinanc		Value
Components	Туре	
Carbon dioxide (CAS 124-38-9)	Ceiling	18000 mg/m3
		10000 ppm
	MAK	9000 mg/m3
		5000 ppm
Cyclohexane (CAS 110-82-7)	MAK	700 mg/m3
		200 ppm
	STEL	2800 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
Cyclohexane (CAS 110-82-7)	TWA	350 mg/m3
		100 ppm
Bulgaria. OELs. Regulation No 13	3 on protection of workers agains	st risks of exposure to chemical agents at work
Components	Туре	Value
Carbon dioxide (CAS	TWA	9000 mg/m3

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124-38-9)

SDS EU

Components	Туре	Value
		5000 ppm
Cyclohexane (CAS 110-82-7)	TWA	700 mg/m3
,		200 ppm
Croatia. Dangerous Substance I Components	Exposure Limit Values in the Wo Type	rkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value
Carbon dioxide (CAS	MAC	9000 mg/m3
124-38-9)		5000 ppm
Cyclohexane (CAS	MAC	700 mg/m3
110-82-7)		200 ppm
Czech Republic. OELs. Governr	nent Decree 361	
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	Ceiling	45000 mg/m3
	TWA	9000 mg/m3
Cyclohexane (CAS 110-82-7)	Ceiling	2000 mg/m3
110-62-7)	TWA	700 mg/m3
Denmark		
Components	Туре	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	25 ppm
Denmark. Exposure Limit Value		
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3
		5000 ppm
Cyclohexane (CAS 110-82-7)	TLV	172 mg/m3
		50 ppm
Estonia. OELs. Occupational Ex Components	posure Limits of Hazardous Sub Type	ostances (Regulation No. 105/2001, Annex), as amended Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		5000
Ovelebayena (CAC	T10/0	5000 ppm
Cyclohexane (CAS 110-82-7)	TWA	700 mg/m3
		200 ppm
Finland Components	Туре	Value
Hydrocarbons, C9-C11,	TWA	500 mg/m3
n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Finland. Workplace Exposure Li	mits	
Components	Туре	Value
	TWA	9100 mg/m3
Carbon dioxide (CAS 124-38-9)		
124-38-9)		5000 ppm
	STEL	5000 ppm 875 mg/m3
124-38-9) Cyclohexane (CAS	STEL	

Finland. Workplace Exp Components	Туре	Value
		100 ppm
France	<b>T</b>	Walter
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyc s,< 5% n-hexane	STEL slic	1500 mg/m3
	TWA	1000 mg/m3
rance. OELs. Indicativ	re Occupational Exposure Limits as Pres	cribed by Order of 30 June 2004, as amended
Components	Туре	Value
Carbon dioxide (CAS 24-38-9)	VME	9000 mg/m3
		9000 mg/m3
		5000 ppm
		5000 ppm
-	ional Exposure Limits as Prescribed by A	Art. R.4412-149 of Labor Code, as amended
Components	Туре	Value
Cyclohexane (CAS 10-82-7)	VME	700 mg/m3
		200 ppm
	t Values (VLEP) for Occupational Exposu	
components	Туре	Value
Carbon dioxide (CAS	VME	9000 mg/m3
Carbon dioxide (CAS		
Carbon dioxide (CAS 24-38-9)	VME	
Carbon dioxide (CAS 24-38-9)	VME	9000 mg/m3
Carbon dioxide (CAS 24-38-9)  Regulatory status:  Regulatory status: Cyclohexane (CAS	VME Regulatory indicative (VRI)	9000 mg/m3
Carbon dioxide (CAS 24-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 10-82-7)	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE	9000 mg/m3 5000 ppm
Carbon dioxide (CAS 24-38-9)  Regulatory status:  Regulatory status:  Cyclohexane (CAS	VME Regulatory indicative (VRI) Regulatory indicative (VRI)	9000 mg/m3 5000 ppm 1300 mg/m3
Carbon dioxide (CAS 24-38-9)  Regulatory status:  Regulatory status:  Cyclohexane (CAS 10-82-7)  Regulatory status:	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)	9000 mg/m3 5000 ppm
Carbon dioxide (CAS 24-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 10-82-7)	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)	9000 mg/m3 5000 ppm 1300 mg/m3 375 ppm
Carbon dioxide (CAS 24-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 10-82-7) Regulatory status: Regulatory status:	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)  Indicative limit (VL)  VME	9000 mg/m3 5000 ppm 1300 mg/m3
Carbon dioxide (CAS 24-38-9)  Regulatory status:  Regulatory status:  Cyclohexane (CAS 10-82-7)  Regulatory status:	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)	9000 mg/m3 5000 ppm 1300 mg/m3 375 ppm 700 mg/m3
Carbon dioxide (CAS 24-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 10-82-7) Regulatory status: Regulatory status: Regulatory status:	Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)  Indicative limit (VL)  VME  Regulatory binding (VRC)	9000 mg/m3 5000 ppm 1300 mg/m3 375 ppm
Carbon dioxide (CAS 24-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 10-82-7) Regulatory status: Regulatory status: Regulatory status: Regulatory status: Regulatory status:	Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)  Indicative limit (VL)  VME  Regulatory binding (VRC)  Regulatory binding (VRC)  st (advisory OELs). Commission for the limit (VRI)	9000 mg/m3 5000 ppm 1300 mg/m3 375 ppm 700 mg/m3 200 ppm
Carbon dioxide (CAS 24-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 10-82-7) Regulatory status: Regulatory status: Regulatory status: Regulatory status: Regulatory status: Regulatory status:	Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)  Indicative limit (VL)  VME  Regulatory binding (VRC)  Regulatory binding (VRC)  st (advisory OELs). Commission for the limit (VRI)	9000 mg/m3 5000 ppm 1300 mg/m3 375 ppm 700 mg/m3
Carbon dioxide (CAS 124-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 110-82-7) Regulatory status: Regulatory status: Regulatory status: Regulatory status: Regulatory status: Cyclohexane (CAS 110-82-7) Regulatory status: Regulatory status: Regulatory status: Cyclohexane (CAS 110-82-7) Regulatory status: Regulatory status: Cyclohexane (CAS 110-82-9) Regulatory status: Cyclohexane (CAS 110-82-9) Regulatory status: Cyclohexane (CAS 124-38-9) Regulatory status: Cyclohexane (CAS 124-38-9) Regulatory status: Cyclohexane (CAS 124-38-9) Regulatory status: Cyclohexane (CAS 110-82-9) Regulatory status: Cyclohexane (CAS 110-82-7)	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)  Indicative limit (VL)  VME  Regulatory binding (VRC)  Regulatory binding (VRC)  st (advisory OELs). Commission for the Interpretation	9000 mg/m3 5000 ppm 1300 mg/m3 375 ppm 700 mg/m3 200 ppm  nvestigation of Health Hazards of Chemical Compound Value
Carbon dioxide (CAS 124-38-9) Regulatory status: Regulatory status: Cyclohexane (CAS 110-82-7) Regulatory status: Regulatory status: Regulatory status: Regulatory status: Regulatory status: Carbon dioxide (CAS Carbon dioxide (CAS	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)  Indicative limit (VL)  VME  Regulatory binding (VRC)  Regulatory binding (VRC)  st (advisory OELs). Commission for the Indicative	9000 mg/m3  5000 ppm  1300 mg/m3  375 ppm  700 mg/m3  200 ppm  nvestigation of Health Hazards of Chemical Compound
Regulatory status: Cyclohexane (CAS 110-82-7) Regulatory status: Regulatory status: Regulatory status: Regulatory status:	VME  Regulatory indicative (VRI)  Regulatory indicative (VRI)  VLE  Indicative limit (VL)  Indicative limit (VL)  VME  Regulatory binding (VRC)  Regulatory binding (VRC)  st (advisory OELs). Commission for the Interpretation	9000 mg/m3  5000 ppm  1300 mg/m3  375 ppm  700 mg/m3  200 ppm  nvestigation of Health Hazards of Chemical Compound

Туре	Value	
TWA	9100 mg/m3	
	5000 ppm	
TWA	700 mg/m3	
	200 ppm	
Туре	Value	
TWA	700 mg/m3	
-	TWA <b>Type</b>	TWA 9100 mg/m3 5000 ppm TWA 700 mg/m3 200 ppm  Type Value

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Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	AGW	9100 mg/m3	
		5000 ppm	
Cyclohexane (CAS I10-82-7)	AGW	700 mg/m3	
		200 ppm	
Greece. OELs (Decree No. 90/19 Components	99, as amended) Type	Value	
Carbon dioxide (CAS	STEL	54000 mg/m3	
24-38-9)	5.22	·	
	T\A/A	5000 ppm	
	TWA	9000 mg/m3	
Cyclohexane (CAS	TWA	5000 ppm 700 mg/m3	
110-82-7)		-	
		200 ppm	
Hungary. OELs. Joint Decree or Components	n Chemical Safety of Workplace Type	s Value	
Carbon dioxide (CAS	TWA	9000 mg/m3	
124-38-9) Cyclohexane (CAS	TWA	700 mg/m3	
110-82-7)			
celand. OELs. Regulation 154/1 Components	999 on occupational exposure   Type	imits Value	
Carbon dioxide (CAS	TWA	9000 mg/m3	
124-38-9)		•	
2		5000 ppm	
Cyclohexane (CAS 110-82-7)	TWA	172 mg/m3	
		50 ppm	
reland. Occupational Exposure		W. I.	
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Cyclohexane (CAS 110-82-7)	TWA	700 mg/m3	
,		200 ppm	
taly. Occupational Exposure Li		Walter	
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Cyclohexane (CAS 110-82-7)	TWA	350 mg/m3	
		100 ppm	
Latvia. OELs. Occupational exp Components	osure limit values of chemical s Type	ubstances in work environment Value	
Carbon dioxide (CAS	TWA	9000 mg/m3	
124-38-9)	1 447 (	•	
		5000 ppm	
Cyclohexane (CAS I10-82-7)	TWA	80 mg/m3	
		23 ppm	

Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Cyclohexane (CAS 110-82-7)	TWA	700 mg/m3
,		200 ppm
Luxembourg. Binding Occupational Components	exposure limit values (Ann Type	ex I), Memorial A Value
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		5000 ppm
Cyclohexane (CAS	TWA	700 mg/m3
110-82-7)	IWA	•
		200 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
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
,		5000 ppm
Cyclohexane (CAS	TWA	700 mg/m3
110-82-7)		200 ppm
Netherlands. OELs (binding)		
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
Cyclohexane (CAS	STEL	1400 mg/m3
110-82-7)	TWA	700 mg/m3
Norway		
Components	Туре	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes,	TWA	275 mg/m3
cyclics, < 2% aromatics	`antaminanta in the Markula	
Norway. Administrative Norms for C Components	Type	value
Carbon dioxide (CAS	TLV	9000 mg/m3
124-38-9)		5000 ppm
Cyclohexane (CAS 110-82-7)	TLV	525 mg/m3
110-02-1)		150 ppm
		on 6 June 2014 on the maximum permissible
concentrations and intensities of ha Components	armful health factors in the v Type	vork environment, Journal of Laws 2014, item 817 Value
Carbon dioxide (CAS	STEL	27000 mg/m3
124-38-9)	T\A/A	0000/ 0
Ovelah (OAO	TWA	9000 mg/m3
Cyclohexane (CAS 110-82-7)	STEL	1000 mg/m3
	TWA	300 mg/m3

Components	Туре	1 Series A, n.266) Value
Carbon dioxide (CAS 24-38-9)	TWA	9000 mg/m3
		5000 ppm
Cyclohexane (CAS 10-82-7)	TWA	700 mg/m3
		200 ppm
Portugal. VLEs. Norm on occupational occupational occupational occupants	exposure to chemical agen Type	ts (NP 1796) Value
Carbon dioxide (CAS	STEL	30000 ppm
[24-38-9]	TWA	5000 ppm
Cyclohexane (CAS 10-82-7)	TWA	100 ppm
Romania. OELs. Protection of workers of Components	from exposure to chemical Type	agents at the workplace Value
Carbon dioxide (CAS 24-38-9)	TWA	9000 mg/m3
		5000 ppm
Cyclohexane (CAS 10-82-7)	TWA	700 mg/m3
		200 ppm
Slovakia. OELs. Regulation No. 300/200 Components	7 concerning protection of Type	health in work with chemical agents Value
Carbon dioxide (CAS 24-38-9)	TWA	9000 mg/m3
24-30-9)		5000 ppm
	TWA	700 mg/m3
Cyclohexane (CAS 110-82-7)	TWA	
10-82-7)		200 ppm
10-82-7)  Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov	g protection of workers aga renia)	200 ppm ainst risks due to exposure to chemicals while wor
10-82-7)  Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components	g protection of workers aga venia) Type	200 ppm ainst risks due to exposure to chemicals while work Value
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS	g protection of workers aga renia)	200 ppm ainst risks due to exposure to chemicals while wor
10-82-7)  Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS	g protection of workers aga venia) Type	200 ppm ainst risks due to exposure to chemicals while work Value
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS	g protection of workers aga venia) Type	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS	g protection of workers aga renia) Type TWA	200 ppm  ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 24-38-9) Cyclohexane (CAS 10-82-7) Spain. Occupational Exposure Limits	g protection of workers aga renia) Type TWA TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm 700 mg/m3  200 ppm
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 10-82-7) Spain. Occupational Exposure Limits Components	g protection of workers aga renia) Type TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm 700 mg/m3
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 110-82-7) Spain. Occupational Exposure Limits Components Carbon dioxide (CAS	g protection of workers aga renia) Type TWA TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm 700 mg/m3  200 ppm
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 10-82-7) Spain. Occupational Exposure Limits Components Carbon dioxide (CAS	g protection of workers aga renia) Type TWA TWA	200 ppm  ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm  700 mg/m3  200 ppm  Value
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slove Components Carbon dioxide (CAS 24-38-9) Cyclohexane (CAS 10-82-7) Spain. Occupational Exposure Limits Components Carbon dioxide (CAS 24-38-9) Cyclohexane (CAS	g protection of workers aga renia) Type TWA TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm  700 mg/m3  200 ppm  Value  9150 mg/m3
Glovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 110-82-7) Carbon dioxide (CAS	g protection of workers agarenia) Type TWA TWA  Type  Type  Type  Type  TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm  700 mg/m3  200 ppm  Value  9150 mg/m3  5000 ppm
Glovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 10-82-7) Gpain. Occupational Exposure Limits Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 110-82-7)	g protection of workers agarenia) Type TWA TWA  Type  Type  Type  Type  TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm 700 mg/m3  200 ppm  Value  9150 mg/m3  5000 ppm  700 mg/m3
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 110-82-7) Spain. Occupational Exposure Limits Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 124-38-9) Cyclohexane (CAS 110-82-7)	g protection of workers agarenia) Type TWA TWA  Type  Type  Type  Type  TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm 700 mg/m3  200 ppm  Value  9150 mg/m3  5000 ppm  700 mg/m3
Slovenia. OELs. Regulations concernin Official Gazette of the Republic of Slov Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 10-82-7) Spain. Occupational Exposure Limits Components Carbon dioxide (CAS 124-38-9) Cyclohexane (CAS 10-82-7) Cyclohexane (CAS 10-82-7) Sweden Components Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic	g protection of workers agarenia) Type TWA TWA  Type TWA  Type TWA  TYPE TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm 700 mg/m3  200 ppm  Value  9150 mg/m3  5000 ppm 700 mg/m3  200 ppm  700 ppm
110-82-7)	g protection of workers agarenia) Type TWA TWA  Type TWA  Type TWA  Type TWA  TWA	200 ppm ainst risks due to exposure to chemicals while work  Value  9000 mg/m3  5000 ppm 700 mg/m3  200 ppm  Value  9150 mg/m3  5000 ppm 700 mg/m3  5000 ppm 700 mg/m3

Sweden Components	Туре	Value
	TWA	300 mg/m3
Sweden. OELs. Work Environment	Authority (AV), Occupationa	al Exposure Limit Values (AFS 2015:7)
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	STEL	18000 mg/m3
		10000 ppm
	TWA	9000 mg/m3
		5000 ppm
Cyclohexane (CAS 110-82-7)	TWA	700 mg/m3
		200 ppm
Switzerland		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA	500 ppm
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	STEL	6000 mg/m3
Sychos, 1270 aromatics	TWA	300 mg/m3
Switzerland. SUVA Grenzwerte am		g
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
,		5000 ppm
Cyclohexane (CAS I10-82-7)	STEL	2800 mg/m3
		800 ppm
	TWA	700 mg/m3
		200 ppm
JK. EH40 Workplace Exposure Lir		
Components	Туре	Value
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m3
		15000 ppm
	TWA	9150 mg/m3
		5000 ppm
Cyclohexane (CAS 10-82-7)	STEL	1050 mg/m3
		300 ppm
	TWA	350 mg/m3
		100 ppm

# **Biological limit values**

Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)
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Components	Value	Determinant	Specimen	Sampling Time
Cyclohexane (CAS 110-82-7)	450 μg/l	Cyclohexanol	Blood	*
	3,2 mg/g	Cyclohexanol	Creatinine in urine	*
	150 mg/g	1,2-Cyclohexan ediol	Creatinine in urine	*
	3,61 mmol/mol	Cyclohexanol	Creatinine in urine	*
	146 mmol/mol	1,2-Cyclohexan ediol	Creatinine in urine	*
	4,49 umol/l	Cyclohexanol	Blood	*
* - For sampling details.	. please see the source o	document.		

For sampling details, please see the source document.

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

Components	Value	Determinant	Specimen	Sampling Time
Cyclohexane (CAS 110-82-7)	150 mg/g	1,2-Cyclohexan diol (nach Hydrolyse)	Creatinine in urine	*

<sup>\* -</sup> 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
Cyclohexane (CAS 110-82-7)	150 mg/g	Gesamt-1,2-Cy clohexandiol	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Recommended monitoring

Follow standard monitoring procedures.

# procedures

# Derived no effect levels (DNELs)

# **General Population**

Components	Value	Assessment factor	Notes
Cyclohexane (CAS 110-82-7)			
Long-term, Local, Inhalation	206 mg/m3	1,7	Repeated dose toxicity
Long-term, Systemic, Dermal	1186 mg/kg bw/day	1,7	Repeated dose toxicity
Long-term, Systemic, Inhalation	206 mg/m3	1,7	Repeated dose toxicity
Long-term, Systemic, Oral	59,4 mg/kg bw/day	1,7	Repeated dose toxicity
Short-term, Local, Inhalation	412 mg/m3	1,7	respiratory tract irritation
Short-term, Systemic, Inhalation	412 mg/m3	1,7	Neurotoxicity
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,c	yclics,< 5% n-hexane (CAS E	C921-024-6)	
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		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes	, cyclics, < 2% aromatics (CA	S EC919-857-5)	
Long-term, Systemic, Dermal	300 mg/kg		
Long-term, Systemic, Inhalation	900 mg/m3		
Long-term, Systemic, Oral	300 mg/kg		
Orange, sweet, extract (CAS 8028-48-6)			
Long-term, Systemic, Dermal	4,44 mg/kg bw/day	225	Repeated dose toxicity
Long-term, Systemic, Inhalation	7,78 mg/m3	225	Repeated dose toxicity
<u>Workers</u>			
Components	Value	Assessment factor	Notes
Cyclohexane (CAS 110-82-7)			
Long-term, Local, Inhalation	700 mg/m3	1	Neurotoxicity
Long-term, Systemic, Dermal	2016 mg/kg bw/day	1	Repeated dose toxicity
Long-term, Systemic, Inhalation	700 mg/m3	1	Neurotoxicity
Short-term, Local, Inhalation	700 mg/m3	1	Neurotoxicity
Short-term, Systemic, Inhalation	700 mg/m3	1	Neurotoxicity
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,c	yclics,< 5% n-hexane (CAS E	C921-024-6)	
Long-term, Systemic, Dermal	773 mg/kg bw/day		
Long-term, Systemic, Inhalation	2035 mg/m3		

Material name: LABEL OFF 50 - Kontakt chemie - Europe

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS EC919-857-5)

Long-term, Systemic, Dermal 300 mg/kg Short-term, Systemic, Inhalation 1500 mg/m3

Orange, sweet, extract (CAS 8028-48-6)

Long-term, Systemic, Inhalation 31,1 mg/m3 112,5 Repeated dose toxicity Short-term, Local, Dermal 185,8 μg/cm² 30 Skin Sensitisation

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor Notes	
Cyclohexane (CAS 110-82-7)			
Freshwater	0,207 mg/l	1	
Sediment (freshwater)	3,627 mg/kg	1	
Soil	2,99 mg/kg	1	
STP	3,24 mg/l	1	
Orange, sweet, extract (CAS 8028-48	3-6)		
Freshwater	5,4 µg/l	50	
Sediment (freshwater)	1,3 mg/kg		
Soil	0,261 mg/kg		
STP	2,1 mg/l	10	

**Exposure guidelines** 

Croatia ELVs: Skin designation

Cyclohexane (CAS 110-82-7)

Can be absorbed 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

equipment.

**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. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

- 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 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 Citrus.

Melting point/freezing point -74 °C (-101,2 °F) estimated

Boiling point or initial boiling point and boiling range

55 - 190

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 0,6 % estimated Explosive limit - upper 8,4 % estimated

(%)

Flash point < 0 °C (< 32,0 °F)

Auto-ignition temperature > 200 °C (> 392 °F)

Decomposition temperature Not available.

Decomposition temperature Not available.

pH Not applicable.

Solubility(ies)

Solubility (water) Insoluble in water

Vapour pressure 57300 hPa estimated

Vapour densityNot available.Relative density0,75 g/cm3 at 20°CParticle characteristicsNot available.

9.2. Other information

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

9.2.2. Other safety characteristics

Explosive properties Not explosive.

Oxidising properties Not oxidising.

VOC 718 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** 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. May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary 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. 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.

Components Species Test Results

Cyclohexane (CAS 110-82-7)

<u>Acute</u> Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 32,88 mg/l

Oral

LD50 Rat > 5000 mg/kg

Material name: LABEL OFF 50 - Kontakt chemie - Europe

Components Species Test Results

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

<u>Acute</u>

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, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

<u>Acute</u> Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Orange, sweet, extract (CAS 8028-48-6)

<u>Acute</u> Dermal

LD50 Rabbit 5000 mg/kg bw/day

Oral

LD50 Rat > 2000 mg/kg/day

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary 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** Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results	
Cyclohexane (CAS 110-82	2-7)			
Aquatic				
Acute				
Algae	EC50	Algae	3,4 mg/l, 72 hours	
Crustacea	EC50	Daphnia	0,9 mg/l, 48 hours	
Fish	LC50	Fish	4,53 mg/l, 96 hours	

Components Species Test Results

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

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Acute

Other LC50 Pseudokirchnerella subcapitata > 1000 mg/l, 72 h

Aquatic

Acute

Fish LC50 Oncorhynchus mykiss > 1000 mg/l

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)

Cyclohexane 3,44

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

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.

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

potential. GWP: 0

#### **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** AEROSOLS, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Hazard No. (ADR) Not available.

Tunnel restriction code D

**14.4. Packing group** Not available.

14.3. Transport hazard class(es)
ADR/RID - Classification 5F

code:

14.5. Environmental hazards yes

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)
Class 2.1
Subsidiary risk -

**14.4. Packing group** Not available.

**14.5. Environmental hazards** yes **ERG Code** 10L

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

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**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 -

**14.4. Packing group** Not available.

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 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 Cyclohexane (CAS 110-82-7)

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

Cyclohexane (CAS 110-82-7)

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:

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]

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended

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).

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TIE. Adule Toxicity Estimate according to REGULATION (EC) NO 12/2/2006 (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.

vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

VOC: Volatile organic compounds.

#### Not available.

Information on evaluation method leading to the classification of mixture

References

Full text of any H-statements not written out in full under Sections 2 to 15 The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

H225 Highly flammable liquid and vapour.

H226 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. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

Revision information

**Training information** 

ormation HazReg Data: Europe - EU

**Disclaimer** 

Follow training instructions when handling this material.

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