

## SAFETY DATA SHEET

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

1.1.	Product identifier	
Trac	de name or designation	BRAKLEEN PRO
of tl	ne mixture	
Syn	onyms	None.
Pro	duct code	BDS001984BU
lssเ	ie date	17-September-2020
Ver	sion number	01
1.2.	Relevant identified uses of the	he 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 byba
	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
	Emergency telephone	Tel.: +32(0)52/45.60.11 (office hours)
nun	ıber	
	General in EU	112 (Available 24 hours a day SDS/Draduat information may not be available for
		112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	Austria National Poisons	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be
	Information Centre	available for the Emergency Service.)
	Belgium National Poisons	070 245 245 (Available 24 hours a day. SDS/Product information may not be
	Control Center	available for the Emergency Service.)
	Bulgaria National	+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be
	Toxicological Information	available for the Emergency Service.)
	Center	
	Czech Republic National Poisons Information	+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.)
	Centre	
	Denmark National Poisons	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be
	Control Center	available for the Emergency Service.)
	Estonia National Poisons	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed
	Information Centre	on Sundays and on national holidays). SDS/Product information may not be
		available for the Emergency Service.)
	Finland National Poison	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	Information Center	
	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 Neatideliotina	+370 5 236 20 52 or +37068753378 (Hours of operation not provided.
	informacija apsinuodijus	SDS/Product information may not be available for the Emergency Service.)
	Malta Accident and	2545 4030 (Hours of operation not provided. SDS/Product information may not be
	Emergency Department	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 Center	+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		
Flammable liquids	Category 2	H225 - Highly flammable liquid and vapour.
Health hazards		
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.
Environmental hazards Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

#### Hazard summary

May be ignited by heat, sparks or flames. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Causes serious eye irritation. Causes skin irritation. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.

#### 2.2. Label elements

**Contains:** 

Response

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

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

Hazard pictograms

	$\vee$ $\vee$ $\vee$ $\vee$
Signal word	Danger
Hazard statements	
H225 H304 H315 H319 H336 H411	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
Precautionary statements Prevention	
P102 P210 P271 P280	Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

#### Material name: BRAKLEEN PRO - Manufacturers BDS001984BU Version #: 01 Issue date: 17-September-2020

P301 + P310 P331	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container (in accordance with related regulations).
Supplemental label information	Regulation (EC) No 648/2004 on detergents: aliphatic hydrocarbons > 30 %
2.3. Other hazards	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

## **SECTION 3: Composition/information on ingredients**

3.2. Mixtures

## **General information**

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	25 - 50	EC921-024-6 -	01-2119475514-35	-	
Classification		2;H225, Asp. Tox. 1;I quatic Chronic 2;H41	H304, Skin Irrit. 2;H315, ST( 1	OT SE	
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	25 - 50	EC927-510-4 -	01-2119475515-33	-	
Classification		2;H225, Asp. Tox. 1;I quatic Chronic 2;H41	H304, Skin Irrit. 2;H315, ST( 1	OT SE	
acetone; propan-2-one; propanone	5 - 10	67-64-1 200-662-2	01-2119471330-49-xxxx	606-001-00-8	#
Classification	: Flam. Liq.	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336		
Propan-2-ol; Isopropyl alcohol; Isopropanol	5 - 10	67-63-0 200-661-7	01-2119457558-25	603-117-00-0	
Classification	: Flam. Liq.	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336		

#### 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.

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

#### **Composition comments**

#### SECTION 4: First aid measures

General information	Take off all contaminated clothing immediately. 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 meas	sures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
4.2. Most important symptoms and effects, both acute and delayed	Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## **SECTION 5: Firefighting measures**

General fire hazards

Highly flammable liquid and vapour.

5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. 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.
For emergency responders	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. 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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is immiscible with water and will spread on the water surface. Prevent product from entering drains.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use.
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	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

Austria Components	Туре	Value	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA (MAK)	200 ppm	

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

Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	MAK	1200 mg/m3
		500 ppm
	STEL	4800 mg/m3
		2000 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	МАК	500 mg/m3
		200 ppm
	STEL	2000 mg/m3
		800 ppm
Belgium. Exposure Limit Values		
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	2420 mg/m3
		1000 ppm
	TWA	1210 mg/m3
		500 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3

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

components	туре	value	
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1400 mg/m3	
	TWA	600 mg/m3	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
	TWA	980 mg/m3	

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

Components	Гуре	value	
acetone; propan-2-one; propanone (CAS 67-64-1)	MAC	1210 mg/m3	
		500 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	MAC	999 mg/m3	
		400 ppm	
	STEL	1250 mg/m3	
		500 ppm	

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

Componente	1360	Valuo	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA	980 mg/m3	
		400 ppm	

#### Czech Republic. OELs. Government Decree 361 Components

Components	Туре	Value	
acetone; propan-2-one; propanone (CAS 67-64-1)	Ceiling	1500 mg/m3	
	TWA	800 mg/m3	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m3	
	TWA	500 mg/m3	
Denmark. Exposure Limit Values			
Components	Туре	Value	
acetone; propan-2-one; propanone (CAS 67-64-1)	TLV	600 mg/m3	
		250 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TLV	490 mg/m3	
		200 ppm	

# Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Propan-2-ol; Isopropyl Ilcohol; Isopropanol (CAS 37-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
inland. Workplace Exposure Lim		
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1500 mg/m3
		630 ppm
	TWA	1200 mg/m3
		500 ppm
Propan-2-ol; Isopropyl Ilcohol; Isopropanol (CAS 57-63-0)	STEL	620 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
rance		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	STEL	1500 mg/m3
	TWA	1000 mg/m3
rance. Threshold Limit Values (V Components	LEP) for Occupational Expos Type	ure to Chemicals in France, INRS ED 984 Value
icetone; propan-2-one; ropanone (CAS 67-64-1)	VLE	2420 mg/m3
Regulatory status: Regulato	ry binding (VRC)	
		1000 ppm
Regulatory status: Regulato	ry binding (VRC)	

Components	Type	re to Chemicals in France, INRS ED 984 Value
	VME	1210 mg/m3
Regulatory status: Regu	ulatory binding (VRC)	
		500 ppm
Regulatory status: Regu	ulatory binding (VRC)	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	VLE	980 mg/m3
	cative limit (VL)	
		400 ppm
	cative limit (VL)	
Germany. DFG MAK List (advi n the Work Area (DFG)	sory OELs). Commission for the li	nvestigation of Health Hazards of Chemical Compound
Components	Туре	Value
acetone; propan-2-one;	TWA	1200 mg/m3
propanone (CAS 67-64-1)		
		500 ppm
Propan-2-ol; Isopropyl	TWA	500 mg/m3
alcohol; Isopropanol (CAS 67-63-0)		
,		200 ppm
Germany - TRGS 900		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic	TWA	700 mg/m3
s,< 5% n-hexane Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	TWA	1500 mg/m3
-	lues in the Ambient Air at the Wor	kplace
Components	Туре	Value
acetone; propan-2-one;	AGW	1200 mg/m3
propanone (CAS 67-64-1)		
		500 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0)	AGW	500 mg/m3
		200 ppm
Greece. OELs (Decree No. 90/	1999, as amended)	
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	3560 mg/m3
	TWA	1780 mg/m3
	OTEL	1225 mg/m3
alcohol; Isopropanol (CAS	STEL	
alcohol; Isopropanol (CAS	STEL	500 ppm
alcohol; Isopropanol (CAS	TWA	500 ppm 980 mg/m3
alcohol; Isopropanol (CAS		980 mg/m3
alcohol; Isopropanol (CAS 57-63-0)	TWA	980 mg/m3 400 ppm
alcohol; Isopropanol (CAS 57-63-0) Hungary. OELs. Joint Decree	TWA on Chemical Safety of Workplaces	980 mg/m3 400 ppm
Components acetone; propan-2-one;	TWA	980 mg/m3 400 ppm
Alcohol; Isopropanol (CAS 57-63-0) Hungary. OELs. Joint Decree Components Acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl Alcohol; Isopropanol (CAS	TWA on Chemical Safety of Workplaces Type	980 mg/m3 400 ppm Value
alcohol; Isopropanol (CAS 57-63-0) Hungary. OELs. Joint Decree Components	TWA on Chemical Safety of Workplaces Type TWA	980 mg/m3 400 ppm Value 1210 mg/m3

Components	Туре	Value	
icetone; propan-2-one; iropanone (CAS 67-64-1)	TWA	600 mg/m3	
		250 ppm	
Propan-2-ol; Isopropyl Ilcohol; Isopropanol (CAS 37-63-0)	TWA	490 mg/m3	
		200 ppm	
reland. Occupational Exposure L	imits		
Components	Туре	Value	
acetone; propan-2-one;	TWA	1210 mg/m3	
propanone (CAS 67-64-1)		500 ppm	
Propan-2-ol; Isopropyl	STEL	400 ppm	
alcohol; Isopropanol (CAS 37-63-0)	STEL	400 ppm	
,	TWA	200 ppm	
taly. Occupational Exposure Lim	its		
Components	Туре	Value	
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Propan-2-ol; Isopropyl	STEL	400 ppm	
alcohol; Isopropanol (CAS			
67-63-0)	TWA	200 ppm	
	10073	200 ppm	
		- h - f	
.atvia. OELs. Occupational expos Components	sure limit values of chemical s Type	ubstances in work environment Value	
Components	Туре	Value 1210 mg/m3	
Components acetone; propan-2-one; propanone (CAS 67-64-1)	<b>Type</b> TWA	Value 1210 mg/m3 500 ppm	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	Туре	Value 1210 mg/m3	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl	<b>Type</b> TWA	Value 1210 mg/m3 500 ppm	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	Type TWA STEL TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	Type TWA STEL TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 37-63-0) Lithuania. OELs. Limit Values for	Type TWA STEL TWA • Chemical Substances, Gener	Value 1210 mg/m3 500 ppm 600 mg/m3 350 mg/m3 al Requirements	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one;	Type TWA STEL TWA • Chemical Substances, Gener Type	Value 1210 mg/m3 500 ppm 600 mg/m3 350 mg/m3 al Requirements Value	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one;	Type TWA STEL TWA • Chemical Substances, Gener Type	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements Value           2420 mg/m3	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one;	Type TWA STEL TWA • Chemical Substances, Gener Type STEL	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements Value           2420 mg/m3           1000 ppm	
Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propanone (CAS 67-64-1)	Type TWA STEL TWA • Chemical Substances, Gener Type STEL	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements Value           2420 mg/m3           1000 ppm           1210 mg/m3	
Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propanone (CAS 67-64-1)	Type TWA STEL TWA • Chemical Substances, Gener Type STEL TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements Value           2420 mg/m3           1000 ppm           1210 mg/m3           500 ppm	
Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propanone (CAS 67-64-1)	Type TWA STEL TWA • Chemical Substances, Gener Type STEL TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements Value           2420 mg/m3           1000 ppm           1210 mg/m3           500 ppm	
Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propanone (CAS 67-64-1)	Type TWA STEL TWA • Chemical Substances, Gener Type STEL TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements           Value           2420 mg/m3           1000 ppm           1210 mg/m3           500 ppm           600 ng/m3	
Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propanone (CAS 67-64-1)	Type TWA STEL TWA Chemical Substances, Gener Type STEL TWA STEL	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements           Value           2420 mg/m3           1000 ppm           1210 mg/m3           500 ppm           600 mg/m3	
Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propanone (CAS 67-64-1)	Type TWA STEL TWA Chemical Substances, Gener Type STEL TWA STEL TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements           Value           2420 mg/m3           1000 ppm           1210 mg/m3           500 ppm           600 ng/m3	
Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	Type TWA STEL TWA Chemical Substances, Gener Type STEL TWA STEL TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements           Value           2420 mg/m3           1000 ppm           1210 mg/m3           500 ppm           600 ng/m3	
Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Lithuania. OELs. Limit Values for Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	Type TWA STEL TWA Chemical Substances, Gener Type STEL TWA STEL TWA TWA	Value           1210 mg/m3           500 ppm           600 mg/m3           350 mg/m3           al Requirements           Value           2420 mg/m3           1000 ppm           1210 mg/m3           500 ppm           600 ng/m3           250 ppm           350 mg/m3           1000 ppm           1210 mg/m3           500 ppm           600 mg/m3           500 ppm           600 mg/m3           150 ppm           350 ng/m3           150 ppm	

	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Netherlands. OELs (binding)		
Components	Туре	Value
acetone; propan-2-one; oropanone (CAS 67-64-1)	STEL	2420 mg/m3
	TWA	1210 mg/m3
Norway. Administrative Norms for ( Components	Contaminants in the Workpla Type	ace Value
acetone; propan-2-one;	TLV	295 mg/m3
propanone (CAS 67-64-1)		-
		125 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0)	TLV	245 mg/m3
		100 ppm
		on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1800 mg/m3
	TWA	600 mg/m3
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3
Portugal. OELs. Decree-Law n. 290/	2001 (Journal of the Republ	
Components	Туре	Value
-	Type TWA	
acetone; propan-2-one;	Type TWA	1210 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio	TWA nal exposure to chemical ag	1210 mg/m3 500 ppm gents (NP 1796)
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components	TWA mal exposure to chemical ag Type	1210 mg/m3 500 ppm gents (NP 1796) Value
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one;	TWA nal exposure to chemical ag	1210 mg/m3 500 ppm gents (NP 1796)
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one;	TWA mal exposure to chemical ag Type	1210 mg/m3 500 ppm gents (NP 1796) Value
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	TWA nal exposure to chemical ag Type STEL	1210 mg/m3 500 ppm gents (NP 1796) Value 750 ppm
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	TWA onal exposure to chemical ag Type STEL TWA	1210 mg/m3 500 ppm jents (NP 1796) Value 750 ppm 500 ppm
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA mal exposure to chemical ag Type STEL TWA STEL TWA	1210 mg/m3 500 ppm yents (NP 1796) Value 750 ppm 500 ppm 400 ppm 200 ppm
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Romania. OELs. Protection of work	TWA mal exposure to chemical ag Type STEL TWA STEL TWA	1210 mg/m3 500 ppm yents (NP 1796) Value 750 ppm 500 ppm 400 ppm 200 ppm
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propan-2-ol; lsopropyl alcohol; lsopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components	TWA onal exposure to chemical ag Type STEL TWA STEL TWA ers from exposure to chemic	1210 mg/m3 500 ppm yents (NP 1796) Value 750 ppm 500 ppm 400 ppm 200 ppm cal agents at the workplace
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components acetone; propan-2-one;	TWA Inal exposure to chemical ag Type STEL TWA STEL TWA ers from exposure to chemic Type	1210 mg/m3 500 ppm yents (NP 1796) Value 750 ppm 500 ppm 400 ppm 200 ppm 200 ppm 200 ppm 1210 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropyl alcohol; Isopropanol (CAS	TWA Inal exposure to chemical ag Type STEL TWA STEL TWA ers from exposure to chemic Type	1210 mg/m3 500 ppm yents (NP 1796) Value 750 ppm 500 ppm 400 ppm 200 ppm cal agents at the workplace Value
acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropyl alcohol; Isopropanol (CAS	TWA mal exposure to chemical ag Type STEL TWA STEL TWA ers from exposure to chemic Type TWA	1210 mg/m3 500 ppm yents (NP 1796) Value 750 ppm 500 ppm 400 ppm 200 ppm cal agents at the workplace Value 1210 mg/m3 500 ppm
Components acetone; propan-2-one; propanone (CAS 67-64-1) Portugal. VLEs. Norm on occupatio Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components acetone; propan-2-one; propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA mal exposure to chemical ag Type STEL TWA STEL TWA ers from exposure to chemic Type TWA	1210 mg/m3 500 ppm yents (NP 1796) Value 750 ppm 500 ppm 400 ppm 200 ppm 200 ppm cal agents at the workplace Value 1210 mg/m3 500 ppm 500 ppm 500 ppm

Slovakia. OELs. Regulation No. 3 Components	00/2007 concerning protection Type	n of health in work with chemical agents Value	
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	

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

Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm
Spain. Occupational Exposure Limit	S	
Components	Туре	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
Sweden		
Components	Туре	Value
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	STEL (STV)	300 ppm
	TWA	200 ppm
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	STEL (STV)	300 ppm
	TWA	200 ppm
Sweden. OELs. Work Environment A		
Components	Туре	Value
acetone; propan-2-one;	STEL	1200 mg/m3
propanone (CAS 67-64-1)		
propanone (CAS 67-64-1)		500 ppm
propanone (CAS 67-64-1)	TWA	600 mg/m3
	TWA	
propanone (CAS 67-64-1) Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)		600 mg/m3
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	TWA	600 mg/m3 250 ppm
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	TWA	600 mg/m3 250 ppm 600 mg/m3

Components		Туре		Va	lue	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	;	TWA		50	0 ppm	
Switzerland. SUVA Grenz	werte am Arbeits	-			lue.	
Components		Туре			lue	
acetone; propan-2-one; propanone (CAS 67-64-1)		STEL		24	00 mg/m3	
				10	00 ppm	
		TWA			00 mg/m3	
				50	0 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)		STEL		10	00 mg/m3	
				40	0 ppm	
		TWA			0 mg/m3	
				20	0 ppm	
UK. EH40 Workplace Exp Components	osure Limits (WE	ELs) Type		Va	lue	
acetone; propan-2-one;		STEL		36	20 mg/m3	
propanone (CAS 67-64-1)				15	00 ppm	
		TWA			10 mg/m3	
		, .			0 ppm	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS		STEL			50 mg/m3	
67-63-0)				50	0 ppm	
		TWA			9 mg/m3	
					0 ppm	
FU. Indicative Exposure I	imit Values in Di	irective	s 91/322/FFC 20		/15/EC, 2009/161/EU, 2017/164/EU	
Components		Туре			lue	
acetone; propan-2-one;		TWA		12	10 mg/m3	
propanone (CAS 67-64-1)				EO	0 ppm	
				50	0 ppm	
ogical limit values Croatia. BLV. Dangerous Components	Substance Expo Value	sure Li	mit Values at Wo Determinant	orkplace, Annex Specimen	es 4 (as amended) Sampling Time	
acetone; propan-2-one;	20 mg/g		Acetone	Creatinine in	*	
propanone (CAS 67-64-1)	- 3.3			urine		
					*	
	20 mg/l		Acetone	Blood		
propanione (OAO 07-04-1)	20 mg/l 0,34 mmol/l		Acetone Acetone	Blood Blood	*	
	0,34 mmol/l 39 mmol/mol		Acetone Acetone	Blood Creatinine in urine	*	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	0,34 mmol/l		Acetone	Blood Creatinine in	*	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	0,34 mmol/l 39 mmol/mol 50 mg/l 50 mg/l		Acetone Acetone	Blood Creatinine in urine	* * *	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS	0,34 mmol/l 39 mmol/mol 50 mg/l 50 mg/l 0,86 umol/l		Acetone Acetone Acetone	Blood Creatinine in urine Blood Urine Urine	* * * *	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	0,34 mmol/l 39 mmol/mol 50 mg/l 50 mg/l 0,86 umol/l 0,86 umol/l		Acetone Acetone Acetone Acetone Acetone Acetone	Blood Creatinine in urine Blood Urine	* * * * *	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) * - For sampling details, ple	0,34 mmol/l 39 mmol/mol 50 mg/l 50 mg/l 0,86 umol/l 0,86 umol/l ease see the source		Acetone Acetone Acetone Acetone Acetone Acetone ment.	Blood Creatinine in urine Blood Urine Blood	* *	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) * - For sampling details, ple	0,34 mmol/l 39 mmol/mol 50 mg/l 50 mg/l 0,86 umol/l 0,86 umol/l ease see the source		Acetone Acetone Acetone Acetone Acetone Acetone ment.	Blood Creatinine in urine Blood Urine Blood	* * * * * nd Security (INRS, ND 2065) Sampling Time	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 57-63-0) - For sampling details, ple <b>France. Biological indica</b>	0,34 mmol/l 39 mmol/mol 50 mg/l 50 mg/l 0,86 umol/l 0,86 umol/l ease see the source tors of exposure		Acetone Acetone Acetone Acetone Acetone Acetone ment. National Institute	Blood Creatinine in urine Blood Urine Urine Blood	* * * nd Security (INRS, ND 2065)	

acetone; propan-2-one;	100 mg/l	Acétone	Urine	
propanone (CAS 67-64-1)				
<ul> <li>* - For sampling details, ple</li> </ul>	ease see the sour	rce document.		

Components	Value	mit Values) Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	25 mg/l	ACETON	Urine	*
	25 mg/l	ACETON	Blood	*
* - For sampling details, ple	ase see the source	document.		
Slovakia. BLVs (Biologica agents, Annex 2	al Limit Value). Reg	ulation no. 355/2006	concerning prot	ection of workers exposed to che
Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	53,36 mg/g	Acetone	Creatinine in urine	*
	80 mg/l	Acetone	Urine	*
* - For sampling details, ple	ease see the source	document.		
Spain. Biological Limit Va Components	alues (VLBs), Occu Value	pational Exposure Li Determinant	mits for Chemica Specimen	al Agents, Table 4 Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
* - For sampling details, ple	ase see the source	document.		
Switzerland. BAT-Werte (	Biological Limit Va			
Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*
Propan-2-ol; Isopropyl	25 mg/l	ACETON	Urine	*
alcohol; Isopropanol (CAS 67-63-0)	25 mg/l	ACETON	Blood	*
	•		Blood	*
67-63-0) * - For sampling details, ple ommended monitoring	ease see the source			*
67-63-0) * - For sampling details, ple ommended monitoring cedures	ease see the source Follow standard	document.		*
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE	ease see the source Follow standard	document.		*
67-63-0) * - For sampling details, ple ommended monitoring cedures	ease see the source Follow standard	document. I monitoring procedure		*
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u>	ease see the source Follow standard	document. I monitoring procedure <b>Value</b>	s. Assessm	ent factor Notes
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all	ease see the source Follow standard Ls) kanes,isoalkanes,cy	document. I monitoring procedure <u>Value</u> clics,< 5% n-hexane (0	s. Assessm	ent factor Notes
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, I	kanes,isoalkanes,cy Dermal nhalation	document. I monitoring procedure Value clics,< 5% n-hexane (0 699 mg/kg bw/day 608 mg/m3	s. Assessm	ent factor Notes
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, I Long-term, Systemic, 0	kanes,isoalkanes,cy Dermal Dral	document. d monitoring procedure clics,< 5% n-hexane (( 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day	s. Assessm	ent factor Notes
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, I Dong-term, Systemic, I Cong-term, Systemic, I	kanes,isoalkanes,cy Dermal hol; Isopropanol (CA	document. d monitoring procedure value clics,< 5% n-hexane (0 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day & 67-63-0)	s. <u>Assessm</u> CAS EC921-024-6	ent factor Notes ວັງ
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, I Long-term, Systemic, 0	kanes,isoalkanes,cy Dermal halation Dral hol; Isopropanol (CA Dermal nhalation	document. d monitoring procedure clics,< 5% n-hexane (( 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day	s. Assessm	ent factor Notes
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, I Cong-term, Systemic, O Propan-2-ol; Isopropyl alco Long-term, Systemic, I Long-term, Systemic, I	kanes,isoalkanes,cy Dermal halation Dral hol; Isopropanol (CA Dermal nhalation	document. I monitoring procedure Value clics,< 5% n-hexane (0 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day &\$ 67-63-0) 319 mg/kg bw/day 89 mg/m3	s. <u>Assessm</u> CAS EC921-024-6 2 2 2	ent factor Notes 3) Repeated dose toxicity Repeated dose toxicity
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, C Propan-2-ol; Isopropyl alco Long-term, Systemic, C Ung-term, Systemic, C Ung-term, Systemic, C Ung-term, Systemic, C	ease see the source Follow standard Ls) kanes,isoalkanes,cy Dermal nhalation Dral hol; Isopropanol (CA Dermal nhalation Dral	document. I monitoring procedure clics,< 5% n-hexane (0 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day &S 67-63-0) 319 mg/kg bw/day 89 mg/m3 26 mg/kg bw/day <b>Value</b>	s. Assessm CAS EC921-024-6 2 2 2 Assessm	ent factor Notes Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE) <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, 0 Propan-2-ol; Isopropyl alco Long-term, Systemic, 0 Uong-term, Systemic, 0 <u>Workers</u> <u>Components</u>	kanes,isoalkanes,cy Dermal halation Dral hol; Isopropanol (CA Dermal nhalation Dral kanes,isoalkanes,cy Dermal	document. I monitoring procedure clics,< 5% n-hexane (0 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day &S 67-63-0) 319 mg/kg bw/day 89 mg/m3 26 mg/kg bw/day <b>Value</b>	s. Assessm CAS EC921-024-6 2 2 2 Assessm	ent factor Notes Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, C Propan-2-ol; Isopropyl alco Long-term, Systemic, I Long-term, Systemic, I Long-term, Systemic, C <u>Workers</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I	kanes,isoalkanes,cy Dermal hhalation Dral hol; Isopropanol (CA Dermal nhalation Dral kanes,isoalkanes,cy Dermal nhalation	document. d monitoring procedure clics,< 5% n-hexane (( 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day &S 67-63-0) 319 mg/kg bw/day 89 mg/m3 26 mg/kg bw/day 26 mg/kg bw/day <b>Value</b> clics,< 5% n-hexane (( 773 mg/kg bw/day 2035 mg/m3	s. Assessm CAS EC921-024-6 2 2 2 Assessm	ent factor Notes Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
67-63-0) * - For sampling details, ple ommended monitoring cedures ved no effect levels (DNE <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, C Propan-2-ol; Isopropyl alco Long-term, Systemic, I Long-term, Systemic, I Long-term, Systemic, C Workers <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, C	ease see the source Follow standard Ls) kanes,isoalkanes,cy Dermal nhalation Dral hol; Isopropanol (CA Dermal nhalation Dral kanes,isoalkanes,cy Dermal nhalation hol; Isopropanol (CA Dermal	document. d monitoring procedure clics,< 5% n-hexane (( 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day &S 67-63-0) 319 mg/kg bw/day 89 mg/m3 26 mg/kg bw/day 26 mg/kg bw/day <b>Value</b> clics,< 5% n-hexane (( 773 mg/kg bw/day 2035 mg/m3	s. Assessm CAS EC921-024-6 2 2 2 Assessm	ent factor Notes Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
67-63-0) * - For sampling details, ple ommended monitoring redures ved no effect levels (DNE) <u>General Population</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Long-term, Systemic, C Propan-2-ol; Isopropyl alco Long-term, Systemic, I Long-term, Systemic, C <u>Workers</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, C <u>Workers</u> <u>Components</u> Hydrocarbons, C6-C7, n-all Long-term, Systemic, I Propan-2-ol; Isopropyl alco Long-term, Systemic, I Propan-2-ol; Isopropyl alco Long-term, Systemic, I	kanes,isoalkanes,cy Dermal halation Dral hol; Isopropanol (CA Dermal nhalation Dral kanes,isoalkanes,cy Dermal nhalation hol; Isopropanol (CA Dermal nhalation hol; Isopropanol (CA Dermal nhalation	document. I monitoring procedure Value clics,< 5% n-hexane (0 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day AS 67-63-0) 319 mg/kg bw/day 89 mg/m3 26 mg/kg bw/day Value clics,< 5% n-hexane (0 773 mg/kg bw/day 2035 mg/m3 AS 67-63-0) 888 mg/kg bw/day	s. Assessm CAS EC921-024-6 2 2 2 Assessm CAS EC921-024-6 1	ent factor Notes Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity Repeated dose toxicity
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Sediment (freshwater) Sediment (marine water) Soil <b>8.2. Exposure controls</b>	552 mg/kg 552 mg/kg 28 mg/kg
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. 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. Wear protective gloves. Full contact: Glove material: Neoprene. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm.
- Other	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	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.
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

Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Colourless.
Odour	Solvent.
Odour threshold	Not available.
рН	Not applicable.
Melting point/freezing point	-94,7 °C (-138,5 °F) estimated
Initial boiling point and boiling range	56 - 99 °C (132,8 - 210,2 °F)
Flash point	-26,0 °C (-14,8 °F)
Evaporation rate	2,8 (Ether=1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2,5 % estimated
Flammability limit - upper (%)	12,8 % estimated
Vapour pressure	Not available.
Vapour density	3
Vapour density temp.	20 °C (68 °F)
Relative density	0,71 g/cm3
Relative density temperature	20 °C (68 °F)
Solubility(ies) Solubility (water)	Insoluble in water

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Chemical family	Cleaner
VOC	715 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 heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Acids. Strong oxidising agents. Chlorine. Isocyanates.
10.6. Hazardous decomposition products	Not available.

## **SECTION 11: Toxicological information**

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

#### Information on likely routes of exposure

**General information** 

Inhalation	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms	Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

#### 11.1. Information on toxicological effects

Acute toxicity May be fatal if	swallowed and enters airways.
--------------------------------	-------------------------------

Components	Species	Test Results
acetone; propan-2-one; propanc	one (CAS 67-64-1)	
<u>Acute</u>		
Dermal		
LD50	Rat	15800 mg/kg
Hydrocarbons, C6-C7, n-alkanes	s,isoalkanes,cyclics,< 5% n-hexane	
<u>Acute</u>		
Dermal		
Liquid		
LD50	-	2920 mg/kg bw/day, 24 h
Inhalation		
Vapour		
LC50	Rat	30000 mg/m³, 4 h
Oral		
Liquid		
LD50	Rat	5840 mg/kg bw/day
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Based on available data, the classification	on criteria are not met.

Skin sensitisation	Based on available data, th	e classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, th	e classification criteria are not met.
Hungary. 26/2000 EüM Ordir (as amended) Not listed.	nance on protection agains	t and preventing risk relating to exposure to carcinogens at work
Reproductive toxicity	Based on available data, th	e classification criteria are not met.
Specific target organ toxicity - single exposure	May cause drowsiness or o	lizziness.
Specific target organ toxicity - repeated exposure	Based on available data, th	e classification criteria are not met.
Aspiration hazard	May be fatal if swallowed a	nd enters airways.
Mixture versus substance information	Not available.	
Other information	Not available.	
SECTION 12: Ecological ir	nformation	
12.1. Toxicity	Toxic to aquatic life with lo	ng lasting effects.
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) acetone; propan-2-one; propa Propan-2-ol; Isopropyl alcohol		-0,24 0,05
Bioconcentration factor (BCF)	Not available.	0,00
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. Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.	
12.7. Additional information		
Estonia Dangerous substan	ces in soil Data	
Propan-2-ol; Isopropyl alc (CAS 67-63-0)	cohol; Isopropanol	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 cor	nsiderations	
13.1. Waste treatment methods		
Residual waste		vith local regulations. Empty containers or liners may retain some

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	Chemical pesticides (As the total sum of the active substances) 0.5 mg/kg
(CAS 07-03-0)	
	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

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.	
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. 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	UN1993
14.2. UN proper shipping	FLAMMABLE LIQUID, N.O.S. (isopropanol, acetone, hydrocarbons)
name	

14.3. Transport hazard class(es) Class 3 Subsidiary risk Not available. Hazard No. (ADR) Tunnel restriction code (D/E) ADR/RID - Classification F1 code: 14.4. Packing group П 14.5. Environmental hazards Yes 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user ΙΑΤΑ 14.1. UN number UN1993 14.2. UN proper shipping FLAMMABLE LIQUID, N.O.S. (isopropanol, acetone, hydrocarbons) name 14.3. Transport hazard class(es) 3 Class Subsidiary risk -П 14.4. Packing group 14.5. Environmental hazards Yes 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user IMDG UN1993 14.1. UN number FLAMMABLE LIQUID, N.O.S. (isopropanol, acetone, hydrocarbons) 14.2. UN proper shipping name 14.3. Transport hazard class(es) 3 Class Subsidiary risk \_ 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant Marine pollutant F-E, S-E EmS 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user Not established. 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

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

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

Not listed.

#### **Other EU regulations**

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

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

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

Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

#### List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
CAS: Chemical Abstract Service.
Ceiling: Short Term Exposure Limit Ceiling value.
CEN: European Committee for Standardization.
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,
labeling and packaging of substances and mixtures.
GWP: Global Warming Potential.
IATA: International Air Transport Association.
IBC: Intermediate Bulk Container.
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, toxic.
REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No
1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement
International concernant le transport de marchandises dangereuses par chemin de fer).

	RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. VOC: Volatile organic compounds. vPvB: Very persistent and very bioaccumulative. STEL: Short-term Exposure Limit.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under	
Sections 2 to 15	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.
	H315 Causes skin irritation. H319 Causes serious eye irritation.
	H336 May cause drowsiness or dizziness.
	H411 Toxic to aquatic life with long lasting effects.
<b>Revision information</b>	None.
Training information	Follow training instructions when handling this material.
Disclaimer	CRC Industries Europe byba cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.