SDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE SDS FOR:

PRODUCT:	MZ-90	
SUS DATE:	25 March 2022	
<u>1. Supplier:</u>	Tradegear Ltd Level 1, 99 Clarence Street Riccarton Christchurch 8011 New Zealand Phone: 0800 22 44 34 or +64 3 341 8055 Fax: 0800 22 11 51 or +64 9 522 8833 24 hr emergency contact: +64 21 510 622	Website: www.tradegear.co.nz Email: office@tradegear.co.nz
Emergency Information	: National Poison Centre:	0800 764 766 (0800 POISON)

2 & 15. Hazards Identification & Regulatory Requirements:

Product Name:	MZ-90
Product Use:	Paint with protection against rust (aerosol)
Group Standard, Approval Number	Aerosols (Flammable) Group Standard 2020 - HSR002515 All ingredients are listed on the New Zealand Inventory of Chemicals (NZIoC)
GHS Classification: [Note: classification based on the CRC Industries SDS]	Aerosol Catergory 1 Skin irritation Category 2 Eye irritation Category 2 Specific target organ toxicity - Single exposure Category 3, narcotic effects Hazardous to the aquatic environment acute Category 1
Hazard Statement and Precautions, including Class 9 statements where applicable: Danger	Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection
Tolerable Exposure Limit or Environmental Exposure Limit:	None applied to this product or its ingredients.



Issue date:

SAFETY DATA SHEET Revision date: 25-March-2022 25-March-2022

SE	CTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1	. Product identifier	
Tra of 1	de name or designation he mixture	MZ-90
Re	gistration number	-
Syı	nonyms	None.
Pro	oduct code	BDS002613AE
1.2	. Relevant identified uses of t	ne substance or mixture and uses advised against
	Identified uses	Paints
	Uses advised against	None known.
1.3	. Details of the supplier of the	safety data sheet
	Company name	CRC Industries UK Ltd.
	Address	Wylds Road Castlefield Industrial Estate
		TA6 4DD Bridgwater Somerset
		United Kingdom
	Telephone	+44 1278 727200
	Fax	+44 1278 425644
	E-mail	hse.uk@crcind.com
	Website	www.crcind.com
	Company name	CRC Industries Europe bv
	Address	Touwslagerstraat 1
		9240 Zele
		Belgium
	Telephone	+32(0)52/45.60.11
	Fax	+32(0)52/45.00.34
	E-mail	hse@crcind.com
	Website	www.crcind.com
1.4 nui	. Emergency telephone mber	Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)
	General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	Austria National Poisons Information Centre	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	Belgium National Poisons Control Center	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	Bulgaria National Toxicological Information Centre	+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	Czech Republic National Poisons Information Centre	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
	Denmark National Poisons Control Center	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
	Estonia National Poisons Information Centre	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
	Finland National Poison Information Center	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Center (NVIC)	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
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 de urgență:	021 5992300, int. 291 Spitalul Clinic de Urgență București: spital@urgentafloreasca.ro
Romania	0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Târgu Mureș: 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.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Environmental hazards		
Hazardous to the aquatic environment, a aquatic hazard	cute Category 1	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term aquatic hazard	Category 1	H410 - Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Contains:

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

butanone; ethyl methyl ketone, Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard pictograms

Signal word



Hazard statements	
H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	Not assigned.
Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	VOC content declaration according to directive 2004/42/EC: Subcategory: Special Finishes, Coating: All types. Max. allowed content g/l = 840. VOC < <675 g/L
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

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Dimethyl ether	50 - 75	115-10-6 204-065-8	01-2119472128-37	603-019-00-8	#
Classification	Press. Gas	s;H280			
zinc	25 - 50	7440-66-6 231-175-3	01-2119467174-37	030-001-01-9	
Classification	Aquatic Ac	ute 1;H400, Aquatic (Chronic 1;H410		
butanone; ethyl methyl ketone	5 - 10	78-93-3 201-159-0	01-2119457290-43	606-002-00-3	#
Classification	Flam. Liq.	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336		
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	5 - 10	- 921-024-6	01-2119475514-35	-	
Classification	Flam. Liq. 1;H304, Ad	2;H225, Skin Irrit. 2;H quatic Chronic 2;H41≦	l315, STOT SE 3;H336, As <mark>i</mark> I	o. Tox.	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	5 - 10	- 919-857-5	01-2119463258-33	-	
Classification	Flam. Liq.	3;H226, STOT SE 3;I	H336, Asp. Tox. 1;H304		
Zinc oxide	1 - 5	1314-13-2 215-222-5	01-2119463881-32	030-013-00-7	
Zinc oxide Classification:	1 - 5 Aquatic Ac	1314-13-2 215-222-5 sute 1;H400, Aquatic (01-2119463881-32 Chronic 1;H410	030-013-00-7	
Zinc oxide Classification: calcium;2-ethylhexanoate	1 - 5 Aquatic Ac <0,5	1314-13-2 215-222-5 sute 1;H400, Aquatic (136-51-6 205-249-0	01-2119463881-32 Chronic 1;H410 01-2119978297-19	030-013-00-7	

List of abbreviations and symbols that may be used above

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

M: M-factor

3.2. Mixtures

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.

SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid meas	sures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.
4.2. Most important symptoms and effects, both acute and delayed	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
SECTION 5: Firefighting m	neasures

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General fire hazards	Extremely flammable aerosol.
5.1. Extinguishing media	
Suitable extinguishing media	Foam. Dry powder. Dry sand. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
For emergency responders	Keep unnecessary personnel away. Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will sediment in water systems. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria Components	Туре	Value	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA (MAK)	200 ppm	
Austria. MAK List, OEL Ordinance	(GwV), BGBI. II, no. 184/2001		-
Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	MAK	295 mg/m3	
		100 ppm	
	STEL	590 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	Ceiling	3820 mg/m3	
		2000 ppm	
	MAK	1910 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	МАК	5 mg/m3	Fume and respirable dust.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Belgium. Exposure Limit Values			
Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Bulgaria. OELs. Regulation No 13	on protection of workers agains	t risks of exposure to chem	nical agents at work
	іуре	value	
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
	TWA	590 mg/m3	

1920 mg/m3

TWA

Dimethyl ether (CAS

115-10-6)

Components	Type	Value	agonto at non
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Croatia. Dangerous Substance Ex Components	posure Limit Values in the Wo Type	orkplace (ELVs), Annexes 1 a Value	nd 2, Narodne Novine, 13/09 Form
butanone; ethyl methyl ketone (CAS 78-93-3)	MAC	600 mg/m3	
		200 ppm	
	STEL	900 mg/m3	
		300 ppm	
Dimethyl ether (CAS 115-10-6)	MAC	1920 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	MAC	2 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.
Cyprus. OELs. Control of factory a Components	atmosphere and dangerous so Type	ubstances in factories regulat Value	ion, PI 311/73, as amended. Form
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
Czech Republic. OELs. Governme Components	nt Decree 361 Type	Value	
butanone; ethyl methyl	Ceiling	900 mg/m3	
ketone (CAS 78-93-3)		J. J	
	TWA	600 mg/m3	
Dimethyl ether (CAS 115-10-6)	Ceiling	2000 mg/m3	
	TWA	1000 mg/m3	
Zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m3	
	TWA	2 mg/m3	
Denmark Components	Туре	Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	25 ppm	
Denmark. Exposure Limit Values Components	Туре	Value	
butanone; ethyl methyl ketone (CAS 78-93-3)	TLV	145 mg/m3	
		50 ppm	
Dimethyl ether (CAS 115-10-6)	TLV	1920 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	TLV	4 mg/m3	
Estonia. OELs. Occupational Expo Components	osure Limits of Hazardous Su Type	bstances (Regulation No. 105 Value	/2001, Annex), as amended
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	

200 ppm

1920 mg/m3

1000 ppm

Dimethyl ether (CAS 115-10-6)

TWA

Estonia. OELs. Occupat Components	ional Exposure Limits of Type	Hazardous Sub	estances (Regulation No. 105/20 Value	01, Annex), as amended
Zinc oxide (CAS 1314-13	-2) TWA		5 mg/m3	
Finland Components	Туре		Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA		500 mg/m3	
Finland. Workplace Exp Components	osure Limits Type		Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL		300 mg/m3	
	TWA		100 ppm 60 mg/m3	
Dimethyl ether (CAS	TWA		20 ppm 2000 mg/m3	
Zinc oxide (CAS 1314-13	-2) STFI		1000 ppm 10 mg/m3	Fume
	TWA		2 mg/m3	Fume.
France Components	Туре		Value	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cycl s < 5% n-bexane	STEL		1500 mg/m3	
	TWA		1000 mg/m3	
France. OELs. Indicative Components	e Occupational Exposure Type	e Limits as Preso	cribed by Order of 30 June 2004 Value	, as amended
Dimethyl ether (CAS 115-10-6)	VME		1920 mg/m3	
			1920 mg/m3	
			1000 ppm	
			1000 ppm	
France. OELs. Occupati Components	onal Exposure Limits as Type	Prescribed by A	Art. R.4412-149 of Labor Code, a Value	s amended
butanone; ethyl methyl ketone (CAS 78-93-3)	VLE		900 mg/m3	
			300 ppm	
	VME		600 mg/m3	
			200 ppm	
France. Threshold Limit Components	Values (VLEP) for Occu Type	pational Exposu	re to Chemicals in France, INRS Value	SED 984 Form
butanone; ethyl methyl ketone (CAS 78-93-3)	VLE		900 mg/m3	
Regulatory status:	Regulatory binding (VRC	C)	300 ppm	
Regulatory status:	Regulatory binding (VRC VME	C)	600 mg/m3	
Regulatory status:	Regulatory binding (VRC	C)	200 ppm	
Regulatory status: Dimethyl ether (CAS	Regulatory binding (VRC VME	C)	1920 mg/m3	
Regulatory status:	Regulatory indicative (VI	RI)	1000 ppm	
Regulatory status:	Regulatory indicative (VI	RI)		

France. Threshold Limit Values (V Components	LEP) for Occupational Expos Type	ure to Chemicals in France, IN Value	IRS ED 984 Form
Zinc oxide (CAS 1314-13-2)	VME	5 mg/m3	Fume.
Regulatory status: Indicative	e limit (VL)		
		10 mg/m3	Dust.
Regulatory status: Indicative	e limit (VL)		
Germany. DFG MAK List (advisory	OELs). Commission for the	Investigation of Health Hazard	s of Chemical Compounds
Components	Туре	Value	Form
butanone: ethvl methvl	TWA	600 mg/m3	
ketone (CAS 78-93-3)		g	
		200 ppm	
Dimethyl ether (CAS	TWA	1900 mg/m3	
		1000 ppm	
zinc (CAS 7440-66-6)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.
Germany - TRGS 900			
Components	Туре	Value	
Hydrocarbons, C6-C7,	TWA	700 mg/m3	
n-alkanes,isoalkanes,cyclic s < 5% n-bexane			
Hydrocarbons, C9-C11,	TWA	300 mg/m3	
n-alkanes, isoalkanes,		·	
Germany TRGS 900 Limit Values	in the Ambient Air at the Wo	rknlace	
Components	Туре	Value	Form
butanone; ethyl methyl	AGW	600 mg/m3	
ketone (CAS 78-93-3)		000	
	4.014/	200 ppm	
115-10-6)	AGW	1900 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Greece. OELs (Decree No. 90/1999), as amended)		
Components	Туре	Value	Form
butanone; ethyl methyl	STEL	900 mg/m3	
ketone (CAS 78-93-3)		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS	TWA	1920 ma/m3	
115-10-6)			
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
Hungary. OELs. Joint Decree on C	hemical Safety of Workplace	S	Form
	гуре	value	FOIII
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	600 mg/m3	
Dimethyl ether (CAS	TWA	1920 mg/m3	
115-10-6)			

Hungary. OELs. Joint Decree on Chem Components	nical Safety of Workplace Type	es Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.
Iceland, OELs, Regulation 154/1999 on	occupational exposure	limits	
Components	Туре	Value	Form
butanone; ethyl methyl	STEL	900 mg/m3	
Ketone (CAS 78-93-3)		300 ppm	
	TWA	145 mg/m3	
		50 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1885 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Fume.
Ireland. Occupational Exposure Limits	5		
Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction and fume.
	TWA	2 mg/m3	Respirable fraction and fume.
Italy. Occupational Exposure Limits			_
Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
)		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Latvia. OELs. Occupational exposure l Components	limit values of chemical s Type	substances in work environment Value	
hutanone: ethyl methyl	STEL	900 ma/m3	
ketone (CAS 78-93-3)	STEL	300 ng/m3	
	TWA	200 mg/m3	
		67 npm	
Dimethyl ether (CAS	TWA	1920 ma/m3	
115-10-6)		ises ing/ino	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	0,5 mg/m3	

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

Components	Туре	Value	
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	STEL	2280 mg/m3	
		1500 ppm	
	TWA	1920 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	

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

Components	Туре	Value	
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	

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

	.) •		
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Netherlands. OELs (binding)			
Components	Туре	Value	
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	590 mg/m3	
Dimethyl ether (CAS 115-10-6)	STEL	1500 mg/m3	
	TWA	950 mg/m3	
Norway			
Components	Туре	Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	275 mg/m3	
Norway. Administrative Norms for	Contaminants in the Workpl	ace	
Components	Туре	Value Form	
butanone; ethyl methyl ketone (CAS 78-93-3)	TLV	220 mg/m3	
		75 ppm	
Dimethyl ether (CAS 115-10-6)	TLV	384 mg/m3	
		200 ppm	
Zinc oxide (CAS 1314-13-2)	TLV	5 mg/m3 Dust.	

Norway. Administrative Norms for Components	Contaminants in the Workp Type	lace Value	Form
		5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Poland. Ordinance of the Minister of concentrations and intensities of h Components	of Labour and Social Policy armful health factors in the Type	on 6 June 2014 on the maximu work environment, Journal of Value	m permissible Laws 2014, item 817 Form
butanone; ethyl methyl	STEL	900 mg/m3	
ketone (CAS 78-93-3)			
	TWA	450 mg/m3	
Dimethyl ether (CAS 115-10-6)	TWA	1000 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Inhalable fraction.
	TWA	5 mg/m3	Inhalable fraction.
Portugal. OELs. Decree-Law n. 290 Components	/2001 (Journal of the Repub Type	lic - 1 Series A, n.266) Value	
butanone: ethyl methyl	STFI	900 ma/m3	
ketone (CAS 78-93-3)			
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Portugal. VLEs. Norm on occupatio	onal exposure to chemical a Type	gents (NP 1796) Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Romania. OELs. Protection of work Components	ers from exposure to chem Type	ical agents at the workplace Value	Form
butanone; ethyl methyl	STEL	900 mg/m3	
ketone (CAS 78-93-3)		300 ppm	
	Τ\Λ/Δ	600 mg/m3	
		200 npm	
Dimethyl ether (CAS	TWA	1920 mg/m3	
115-10-6)		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STFI	10 ma/m3	Fume.
	TWA	5 mg/m3	Fume
Slovakia. OELs. Regulation No. 300 Components)/2007 concerning protectio Type	n of health in work with chemic Value	cal agents Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
、		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
zinc (CAS 7440-66-6)	TWA	2 mg/m3	Inhalable fraction.
		0,1 mg/m3	Respirable fraction.

Slovakia. OELs. Regulation No. 300/200 Components	7 concerning protection of Type	health in work with chemic Value	cal agents Form
Zinc oxide (CAS 1314-13-2)	STEL	1 mg/m3	Respirable fume.
	TWA	1 mg/m3	Respirable fume.
Slovenia. OELs. Regulations concernin (Official Gazette of the Republic of Slov	g protection of workers aga renia)	ainst risks due to exposure	to chemicals while working
Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Spain. Occupational Exposure Limits Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Sweden			
Components	Туре	Value	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s.< 5% n-hexane	STEL (STV)	300 ppm	
,	TWA	200 ppm	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cvclics. < 2% aromatics	STEL (STV)	600 mg/m3	
	TWA	300 mg/m3	
Sweden. OELs. Work Environment Auth Components	nority (AV), Occupational E Type	xposure Limit Values (AFS Value	2015:7) Form
butanone; ethyl methyl	Ceiling	900 mg/m3	
ketone (CAS 78-93-3)		200	
	T \A/A	300 ppm	
	IVVA	150 mg/m3	
		50 ppm	
115-10-6)	SIEL	1500 mg/m3	
		800 ppm	
	IWA	950 mg/m3	
	T 14/4	500 ppm	
∠inc oxide (CAS 1314-13-2)	IWA	5 mg/m3	l otal dust.
Switzerland Components	Туре	Value	
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA	500 ppm	

Components	Туре	Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	STEL	6000 mg/m3	
	TWA	300 mg/m3	
Switzerland. SUVA Grenzwerte am	Arbeitsplatz		
Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	590 mg/m3	
		200 ppm	
	TWA	590 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1910 mg/m3	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	3 mg/m3	Respirable fume.
	TWA	3 mg/m3	Respirable fume.
UK. EH40 Workplace Exposure Lin	nits (WELs)		_
Components	Туре	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	899 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	STEL	958 mg/m3	
		500 ppm	
	TWA	766 mg/m3	
		400 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
EU. Indicative Exposure Limit Valu	es in Directives 91/322/EEC,	2000/39/EC, 2006/15/EC, 2009	9/161/EU, 2017/164/EU
Components	Туре	Value	
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	

Components	Value	Determinant	Specimen	Sampling Time	
butanone; ethyl methyl ketone (CAS 78-93-3)	2,6 mg/g	methyl ethyl ketone	Creatinine in urine	*	
	4,08 mmol/mol	methyl ethyl ketone	Creatinine in urine	*	
* - For sampling details, ple	ease see the source d	ocument.			
France. Biological indica	tors of exposure (IB	E) (National Institute	for Research ar	nd Security (INRS, ND 2065)	
Components	Value	Determinant	Specimen	Sampling Time	
butanone; ethyl methyl ketone (CAS 78-93-3)	2 mg/l	Méthyléthylcéto ne	Urine	*	

	······································	
ketone (CAS 78-93-3)	ne	
* - For sampling details, please see	the source document.	

Components	Value	Determinant	Specimen	Sampling	g Time
outanone; ethyl methyl ketone (CAS 78-93-3)	150 mg/l	2-Butanon	Urine	*	
^r - For sampling details, pl	ease see the source	document.			
Hungary. Chemical Safe	ty at Workplace Ord	linance Joint Decree I	No. 25/2000 (An	nex 2): Perı	nissible limit values of
biological exposure (effe Components	Value	Determinant	Specimen	Samplin	g Time
butanone; ethyl methyl ketone (CAS 78-93-3)	2 µg/l	MEK	Urine	*	
* For compling dotails, pl	28 µmol/l	MEK	Urine	*	
- For sampling details, pr		uocument.	nito for Chamia	al Aganta -	
Components	Value	Determinant	Specimen	Sampling	g Time
butanone; ethyl methyl ketone (CAS 78-93-3)	2 mg/l	Metiletilcetona	Urine	*	
 For sampling details, pl 	ease see the source	document.			
Switzerland. BAT-Werte Components	(Biological Limit Va Value	alues in the Workplace Determinant	e as per SUVA) Specimen	Sampling	g Time
butanone; ethyl methyl ketone (CAS 78-93-3)	2 mg/l	2-Butanon (MEK)	Urine	*	
* - For sampling details, pl	ease see the source	document.			
UK. EH40 Biological Moi Components	nitoring Guidance V Value	/alues (BMGVs) Determinant	Specimen	Sampling	g Time
butanone; ethyl methyl	70 umol/l	Butan-2-one	Urine	*	
edures ved no effect levels (DNI	Follow standar	d monitoring procedure:	S.		
ommended monitoring edures ved no effect levels (DNI <u>General Population</u>	Follow standar	d monitoring procedure	s.	and factor	Notos
edures ved no effect levels (DNI <u>General Population</u> Components	Follow standard	d monitoring procedure: Value	s. Assessm	nent factor	Notes
ved no effect levels (DNI General Population Components butanone; ethyl methyl kei Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal	d monitoring procedure: Value 412 mg/kg bw/day 106 mg/m3	s. <u>Assessm</u> 2	nent factor	Notes Repeated dose toxicity
ved no effect levels (DNI General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium:2-ethylbexanoate	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6)	d monitoring procedure: Value 412 mg/kg bw/day 106 mg/m3	s. Assessm 2 2	ient factor	Notes Repeated dose toxicity Repeated dose toxicity
wed no effect levels (DNI General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation	d monitoring procedure: Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3	s. <u>Assessm</u> 2 2 40 10	ient factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility
ved no effect levels (DNI General Population Components butanone; ethyl methyl ker Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115-	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6)	d monitoring procedure: Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3	s. <u>Assessm</u> 2 2 40 10	nent factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility
ved no effect levels (DNR General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation	d monitoring procedures Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3	s. Assessm 2 2 40 10 25	nent factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity
ved no effect levels (DNI General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Hydrocarbons, C6-C7, n-a	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes,isoalkanes,cy	d monitoring procedures Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 vclics,< 5% n-hexane (C	s. Assessm 2 2 40 10 25 CAS -)	ient factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity
ved no effect levels (DNR General Population Components butanone; ethyl methyl ker Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Hydrocarbons, C6-C7, n-a Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes,isoalkanes,cy Dermal Inhalation Oral	d monitoring procedures Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 yclics,< 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day	Assessm 2 2 40 10 25 XAS -)	ient factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity
ved no effect levels (DNI General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Hydrocarbons, C6-C7, n-a Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes, isoalkanes, cy Dermal Inhalation Oral -alkanes, isoalkanes,	d monitoring procedures Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 vclics,< 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day cyclics, < 2% aromatic	s. Assessm 2 2 40 10 25 CAS -) s (CAS -)	<u>ient factor</u>	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity
ved no effect levels (DNI General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Hydrocarbons, C6-C7, n-a Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes,isoalkanes,cy Dermal Inhalation Oral -alkanes, isoalkanes, Dermal Inhalation Oral	d monitoring procedures Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 vclics,< 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day cyclics, < 2% aromatic 300 mg/kg 900 mg/m3 300 mg/kg	Assessm 2 2 40 10 25 CAS -) s (CAS -)	<u>tent factor</u>	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity
ved no effect levels (DNR General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Hydrocarbons, C6-C7, n-a Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes, isoalkanes, cy Dermal Inhalation Oral -alkanes, isoalkanes, Dermal Inhalation Oral	Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 471 mg/m3 (clics,< 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day cyclics, < 2% aromatic 300 mg/kg 900 mg/m3 300 mg/kg	Assessm 2 2 40 10 25 CAS -) s (CAS -)	nent factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity
ved no effect levels (DNR General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Hydrocarbons, C6-C7, n-a Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes, isoalkanes, cy Dermal Inhalation Oral -alkanes, isoalkanes, Dermal Inhalation Oral	d monitoring procedures Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 vclics,< 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day cyclics, < 2% aromatic 300 mg/kg 900 mg/m3 300 mg/kg Value	s. Assessm 2 2 40 10 25 CAS -) s (CAS -) Assessm	nent factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity Notes
ved no effect levels (DNI General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, Calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Long-term, Systemic, Morkers Components butanone; ethyl methyl kei	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes,isoalkanes,cy Dermal Inhalation Oral -alkanes, isoalkanes, Dermal Inhalation Oral -atom (CAS 78-93-3)	d monitoring procedures Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 vclics,< 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day cyclics, < 2% aromatic 300 mg/kg 900 mg/m3 300 mg/kg Value	s. Assessm 2 2 40 10 25 CAS -) s (CAS -) Assessm	<u>ent factor</u>	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity Notes
ved no effect levels (DNR General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes, isoalkanes, cy Dermal Inhalation Oral -alkanes, isoalkanes, Dermal Inhalation Oral tone (CAS 78-93-3) Dermal Inhalation	Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 471 mg/m3 471 mg/m3 (clics, < 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day cyclics, < 2% aromatic 300 mg/kg 900 mg/m3 300 mg/kg Value 1161 mg/kg bw/day 600 mg/m3	s. Assessm 2 2 40 10 25 CAS -) s (CAS -) Assessm 1 1	nent factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity Notes Repeated dose toxicity
edures ved no effect levels (DNR <u>General Population</u> <u>Components</u> butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation alkanes, isoalkanes, cy Dermal Inhalation Oral -alkanes, isoalkanes, Dermal Inhalation Oral tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6)	Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 471 mg/m3 yclics,< 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 699 mg/kg bw/day cyclics, < 2% aromatic 300 mg/kg 900 mg/m3 300 mg/kg Value 1161 mg/kg bw/day 600 mg/m3	s. Assessm 2 2 40 10 25 CAS -) s (CAS -) Assessm 1 1	<u>ent factor</u>	Notes Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity Repeated dose toxicity Notes Notes
ved no effect levels (DNR General Population Components butanone; ethyl methyl kei Long-term, Systemic, Long-term, Systemic, calcium;2-ethylhexanoate Long-term, Systemic, Long-term, Systemic, Dimethyl ether (CAS 115- Long-term, Systemic, Hydrocarbons, C6-C7, n-a Long-term, Systemic, Long-term, Systemic, Calcium;2-ethylhexanoate Long-term, Systemic,	Follow standard ELs) tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal Inhalation 10-6) Inhalation 10-6) Inhalation 10-6) Inhalation Oral -alkanes, isoalkanes, cy Dermal Inhalation Oral -alkanes, isoalkanes, Dermal Inhalation Oral tone (CAS 78-93-3) Dermal Inhalation (CAS 136-51-6) Dermal	Value 412 mg/kg bw/day 106 mg/m3 6 mg/kg bw/day 8 mg/m3 471 mg/m3 vclics, < 5% n-hexane (C 699 mg/kg bw/day 608 mg/m3 608 mg/m3 609 mg/kg bw/day 608 mg/m3 609 mg/kg bw/day cyclics, < 2% aromatic 300 mg/kg 900 mg/m3 300 mg/kg Value 1161 mg/kg bw/day 600 mg/m3 5,67 mg/kg bw/day	s. Assessm 2 2 40 10 25 CAS -) s (CAS -) Assessm 1 1 20	nent factor	Notes Repeated dose toxicity Repeated dose toxicity Effect on fertility Effect on fertility Repeated dose toxicity Notes Repeated dose toxicity Repeated dose toxicity developmental toxicity / teratogenicity

Dimethyl ether (CAS	115-10-6)				
Long-term, Syste	emic, Inhalation	1894 mg/m3		12,5	Repeated dose toxicity
Hydrocarbons, C6-C7	7, n-alkanes,isoalkanes,c	yclics,< 5% n-he	xane (CAS -)		
Long-term, Syste Long-term, Syste	emic, Dermal emic, Inhalation	773 mg/kg bw/c 2035 mg/m3	lay		
Hvdrocarbons, C9-C	11. n-alkanes. isoalkanes.	. cvclics. < 2% ai	romatics (CAS	S -)	
Long-term. Syste	emic. Dermal	300 ma/ka		- /	
Short-term, Syste	emic, Inhalation	1500 mg/m3			
Predicted no effect cond	centrations (PNECs)	-			
Components	· · · ·	Value		Assessment factor	Notes
butanone: ethyl meth	vl ketone (CAS 78-93-3)				
Freshwater		55 8 mg/l		1	
Secondary poiso	oning	1000 mg/kg		30	Oral
Sediment (freshv	water)	284,74 mg/kg			
Soil		22,5 mg/kg		1	
Dimethyl ether (CAS	115-10-6)				
Freshwater		0,155 mg/l		1000	
Sediment (fresh	water)	0,681 mg/kg			
Soil		0,045 mg/kg		40	
SIP		160 mg/l		10	
zinc (CAS 7440-66-6)				
Freshwater		20,6 µg/l		1	
Sediment (fresh	water)	117,8 mg/kg		1	
SUI		35,6 mg/kg 100 ug/l		1	
Exposure quidelines		100 µg/1		1	
Austria MAK: Skin a	locianation				
Denmark GV: Skin o	designation	3-3)	Can be abso	rbed through the skin.	
butanone; ethyl r Finland Exposure L	methyl ketone (CAS 78-93 imit Values: Skin desigr	3-3) nation	Can be abso	rbed through the skin.	
butanone; ethyl r France INRS: Skin c	methyl ketone (CAS 78-93 lesignation	3-3)	Can be abso	rbed through the skin.	
butanone; ethyl methyl ketone (CAS 78-93-3) Germany DFG MAK (advisory): Skin designation		Can be abso	rbed through the skin.		
butanone; ethyl r Germany TRGS 900	nethyl ketone (CAS 78-93 Limit Values: Skin desi	3-3) gnation	Can be abso	rbed through the skin.	
butanone; ethyl methyl ketone (CAS 78-93-3) Hungary OELs: Skin designation		Can be abso	rbed through the skin.		
butanone; ethyl methyl ketone (CAS 78-93-3)		Can be abso	rbed through the skin.		
butanone; ethyl r Ireland Exposure Li	methyl ketone (CAS 78-93 mit Values: Skin design	3-3) ation	Can be abso	rbed through the skin.	
butanone; ethyl r Netherlands OELs (butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.				
butanone: ethvl r	methyl ketone (CAS 78-9	3-3)	Can be abso	rbed through the skin.	
Slovenia. OELs. Reg (Official Gazette of t	gulations concerning pr	otection of wor	kers against	risks due to exposur	e to chemicals while working
butanone; ethyl r Switzerland SUVA L	nethyl ketone (CAS 78-93 .imit Values at the Work	3-3) place: Skin des	Can be abso ignation	rbed through the skin.	
butanone; ethyl r UK EH40 WEL: Skin	methyl ketone (CAS 78-93 designation	3-3)	Can be abso	rbed through the skin.	
butanone; ethyl r	nethyl ketone (CAS 78-93	3-3)	Can be abso	rbed through the skin.	
8.2. Exposure controls	· ·	-		-	
Appropriate engineering controls	g Good general y applicable, use maintain airbor established, m shower.	ventilation should process enclosi rne levels below aintain airborne l	d be used. Ve ures, local ext recommended evels to an ad	ntilation rates should b naust ventilation, or oth d exposure limits. If ex cceptable level. Provide	e matched to conditions. If her engineering controls to bosure limits have not been e eyewash station and safety

Individual protection measures, such as personal protective equipment

individual protocilon incuoure	
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.
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

o. I. Information on busic physics	al and chemical properties
Physical state	Liquid.
Form	Aerosol.
Colour	Grey
Odour	Characteristic odor.
Melting point/freezing point	-86,6 °C (-124 °F) estimated
Boiling point or initial boiling point and boiling range	61 °C (141,8 °F) estimated
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Explosive limit - lower (%)	0,6 % estimated
Explosive limit – upper (%)	10 % estimated
Flash point	< 0 °C (< 32,0 °F) Closed cup
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not available.
рН	Not applicable.
Solubility(ies)	
Solubility (water)	Insoluble in water
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1,42 g/cm3 at 20°C
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristic	s
Explosive properties	Not explosive.
Heat of combustion (NFPA 30B)	15,55 kJ/g estimated
Oxidising properties	Not oxidising.
VOC	640 g/l

SECTION 10: Stability and 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. Amines. Ammonia. Caustics. Isocyanates.	
10.6. Hazardous decomposition products	Carbon oxides.	
SECTION 11: Toxicologica	I information	
General information	Occupational exposure to the substance or mixture r	nay cause adverse effects.
Information on likely routes of e	xposure	
Inhalation	May cause drowsiness or dizziness. Headache. Nau harmful.	sea, vomiting. Prolonged inhalation may be
Skin contact	Causes skin irritation.	
Eye contact	Causes serious eye irritation.	
Ingestion	May cause discomfort if swallowed. However, ingest occupational exposure.	on is not likely to be a primary route of
Symptoms	May cause drowsiness or dizziness. Headache. Nau Symptoms may include stinging, tearing, redness, sv cause redness and pain.	sea, vomiting. Severe eye irritation. velling, and blurred vision. Skin irritation. May
11.1. Information on toxicologica	al effects	
Acute toxicity	Based on available data, the classification criteria are	e not met.
Components	Species	Test Results
butanone; ethyl methyl ketone (CA	S 78-93-3)	
Acute	,	
Dermal		
LD50	Rabbit	> 8000 mg/kg
Oral		
LD50	Rat	2300 - 3500 mg/kg
Dimethyl ether (CAS 115-10-6)		
Acute		
Inhalation		
LC50	Rat	308,5 mg/l, 4 Hours
Hydrocarbons, C6-C7, n-alkanes,is	soalkanes,cyclics,< 5% n-hexane	
Acute		
Dermal		
LD50	Rat	2920 mg/kg bw/day, 24 h
Inhalation		
LC50	Rat	25200 mg/m³, 4 h
Oral		5040 // //
LD50		5840 mg/kg bw/day
Hydrocarbons, C9-C11, n-alkanes,	isoalkanes, cyclics, < 2% aromatics	
Acute		
L D50	Rabbit	> 5000 ma/ka
Oral		
LD50	Rat	> 5000 ma/ka
Zinc oxide (CAS 1314-13-2)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/l
Inhalation		
LC50	Mammal	2500 mg/m³
Oral		
LD50	Mouse	7950 mg/kg

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Hungary. 26/2000 EüM Ordin (as amended) Not listed.	ance on protection against and preventing risk relating to exposure to carcinogens at work
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 hazard	s
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
Dimethyl ether (CAS 115	5-10-6)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia	4,4 mg/l
Fish	LC50	Fish	4,1 mg/l
Hydrocarbons, C6-C7, n	-alkanes,isoalkanes,cyd	clics,< 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, o	cyclics, < 2% aromatics	
Acute			
Other	LC50	Pseudokirchnerella subcapitata	> 1000 mg/l, 72 h
Aquatic			
Acute			
Fish	LC50	Oncorhynchus mykiss	> 1000 mg/l
Zinc oxide (CAS 1314-13	3-2)		
Acute			
	EC50	Selenastrum capricornutum (new name Pseudokirchnerella subca	0,137 mg/l, 72 hours
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	0,413 mg/l, 48 hours
Chronic			
Crustacea	NOEC	Daphnia magna	82 μg/l, 7 days
12.2. Persistence and degradability	No data is a	available on the degradability of any ingredie	nts in the mixture.
12.3. Bioaccumulative	potential		

Partition coefficient		
butanone; ethyl methyl ketone Dimethyl ether		0,29 0,1
12.4. Mobility in soil	No data available.	
12.5. Results of PBT and vPvB assessment	This mixture does not con (EC) No 1907/2006, Ann	ntain substances assessed to be vPvB / PBT according to Regulation ex 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: 1	
Substance Global Warming I amended	Potential per (Annex IV),	Regulation 517/2014/EU on fluorinated greenhouse gases, as
Dimethyl ether (CAS 115-	10-6)	1
12.8. Additional information		
Estonia Dangerous substanc	es in soil Data	
butanone; ethyl methyl ketone (CAS 78-93-3)		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
zinc (CAS 7440-66-6)		Zinc (Zn) 1000 mg/kg
		Zinc (Zn) 200 mg/kg Zinc (Zn) 500 mg/kg
Zinc oxide (CAS 1314-13-	2)	Zinc (Zn) 1000 mg/kg

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

Zinc (Zn) 200 mg/kg Zinc (Zn) 500 mg/kg

SECTION 14: Transport information

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

14.2. UN proper shipping	AEROSOLS
name	
14.3. Transport hazard class	(es)
Class	2.1
Subsidiary risk	-
14.4. Packing group	Not applicable
14.5. Environmental hazards	Yes
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.
for user	
IMDG	
14.1. UN number	UN1950
14.2. UN proper shipping	AEROSOLS, MARINE POLLUTANT
name	
14.3. Transport hazard class	(es)
Class	2.1
Subsidiary risk	-
14.4. Packing group	Not applicable
14.5. Environmental hazards	
Marine pollutant	Yes
EmS	F-D, S-U
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Maritime transport in bulk according to IMO instruments	Not established.

ADR; IATA; IMDG



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. 166/2 zinc (CAS 7440-66-6) Zinc oxide (CAS 1314-	2006 Annex II Pollutant Release and Transfer Registry, as amended
Regulation (EC) No. 1907 Not listed.	/2006, REACH Article 59(10) Candidate List as currently published by ECHA
Authorisations	
Regulation (EC) No. 1907 Not listed.	/2006, REACH Annex XIV Substances subject to authorization, as amended
Restrictions on use	
Regulation (EC) No. 1907	/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
butanone; ethyl methyl Dimethyl ether (CAS 1 zinc (CAS 7440-66-6) Directive 2004/37/EC: on work, as amended.	ketone (CAS 78-93-3) 15-10-6) the protection of workers from the risks related to exposure to carcinogens and mutagens at
Not listed.	
Other EU regulations	
Directive 2012/18/EU on r	najor accident hazards involving dangerous substances, as amended
butanone; ethyl methyl Dimethyl ether (CAS 1 zinc (CAS 7440-66-6) Zinc oxide (CAS 1314-	l ketone (CAS 78-93-3) 15-10-6) -13-2)
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.
	VOC content declaration according to directive 2004/42/EC: Subcategory: Special finishes, Coating: All types, Maximum VOC content limit value = 840 g/l
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other info	rmation
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).
	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.
	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 - DEG)
	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.
	TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value.
	VME: Exposure Average Value. VOC: Volatile organic compounds.

References

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under Sections 2 to 15 vPvB: Very persistent and very bioaccumulative. STEL: Short-term Exposure Limit.

Not available.

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

H220 Extremely flammable gas. 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. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. 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** None. **Training information** Follow training instructions when handling this material. Disclaimer CRC Industries Europe UK Limited 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. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.