



Issue date: 25-March-2022 Revision date: 25-March-2022

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

1.1. Product identifier

Trade name or designation

of the mixture

MZ-90

Registration number

Synonyms None.

Product code BDS002613AE

1.2. Relevant identified uses of the 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.

Wylds Road **Address**

> Castlefield Industrial Estate TA6 4DD Bridgwater Somerset

United Kingdom

+44 1278 727200 Telephone +44 1278 425644 Fax E-mail hse.uk@crcind.com Website www.crcind.com

CRC Industries Europe by Company name

Address Touwslagerstraat 1

> 9240 Zele Belgium

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

1.4. Emergency telephone

number

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

Belgium National Poisons

Control Center

Bulgaria National Toxicological Information

Centre

070 245 245 (Available 24 hours a day. SDS/Product information may not be

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

available for the Emergency Service.)

+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 145 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.) Suisse

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

H229 - Pressurized container: May

burst if heated.

Health hazards

exposure

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation H319 - Causes serious eye Category 2

irritation.

Specific target organ toxicity - single Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

Environmental hazards

Hazardous to the aquatic environment, acute Category 1

aquatic hazard

Hazardous to the aquatic environment, long-term aquatic hazard

Category 1 H410 - Very toxic to aquatic life

with long lasting effects.

H400 - Very toxic to aquatic life.

2.2. Label elements

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

butanone; ethyl methyl ketone, Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% Contains:

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

Hazard pictograms



Signal word Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.

Causes skin irritation. H315

Causes serious eye irritation. H319 May cause drowsiness or dizziness. H336

Very toxic to aquatic life with long lasting effects. H410

Precautionary statements

Prevention

Keep out of reach of children. P102

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Do not spray on an open flame or other ignition source. P211

Do not pierce or burn, even after use. P251

Avoid breathing mist/vapours. P261

Wear protective gloves/protective clothing/eye protection/face protection. P280

Response Not assigned.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P410 + P412

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

VOC content declaration according to directive 2004/42/EC: Supplemental label information

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

3.2. Mixtures

General information

Chemical name	%	CAS-No. / E	C No. REACH Registration No.	Index No.	Notes
Dimethyl ether	50 - 75	115-10- 204-065-		603-019-00-8	#
Classification	: Press. Gas	s;H280			
zinc	25 - 50	7440-66- 231-175-		030-001-01-9	
Classification	: Aquatic Ac	ute 1;H400, A	quatic Chronic 1;H410		
butanone; ethyl methyl ketone	5 - 10	78-93-3 201-159-		606-002-00-3	#
Classification	: Flam. Liq.	2;H225, Eye Ir	rit. 2;H319, STOT SE 3;H336		
Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,< 5% n-hexane	5 - 10	- 921-024-	01-2119475514-35 6	-	
Classification		2;H225, Skin I quatic Chronic	rit. 2;H315, STOT SE 3;H336, As 2;H411	р. Тох.	
Hydrocarbons, C9-C11, n-alkanes,					
	5 - 10	- 919-857-	01-2119463258-33 5	-	
isoalkanes, cyclics, < 2% aromatics				-	
isoalkanes, cyclics, < 2% aromatics Classification			5 SE 3;H336, Asp. Tox. 1;H304 2 01-2119463881-32	- 030-013-00-7	
isoalkanes, cyclics, < 2% aromatics Classification Zinc oxide	: Flam. Liq. 1 - 5	3;H226, STOT 1314-13- 215-222-	5 SE 3;H336, Asp. Tox. 1;H304 2 01-2119463881-32	- 030-013-00-7	
isoalkanes, cyclics, < 2% aromatics Classification Zinc oxide	: Flam. Liq. 1 - 5	3;H226, STOT 1314-13- 215-222-	5 SE 3;H336, Asp. Tox. 1;H304 2 01-2119463881-32 5 quatic Chronic 1;H410 6 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

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 measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing. 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.

In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

Ingestion

4.2. Most important symptoms

May cause drowsiness or dizziness. Headache, Nausea, vomiting, Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing media

Foam. 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

Special fire fighting procedures

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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

Austria

Occupational exposure limits

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)	ide (CAS 1314-13-2) MAK 5 mg/m3	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 o Components	n protection of workers agains Type	t risks of exposure to chen Value	nical agents at work
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
	TWA	590 mg/m3	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	

Material name: MZ-90 - Action Can - UK

SDS EU

Bulgaria. OELs. Regulation No 13 or Components	Type	Value	meai agents at WOIK
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Croatia. Dangerous Substance Expo Components	sure Limit Values in the Wo	orkplace (ELVs), Annexes 1 aı Value	nd 2, Narodne Novine, 13/09 Form
outanone; ethyl methyl	MAC	600 mg/m3	
tetone (CAS 78-93-3)		•	
		200 ppm	
	STEL	900 mg/m3	
		300 ppm	
Dimethyl ether (CAS 15-10-6)	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 atr	nosphere and dangerous su	ubstances in factories regulat	ion. Pl 311/73, as amended
Components	Type	Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
Czech Republic. OELs. Government	Decree 361		
Components	Туре	Value	
outanone; ethyl methyl tetone (CAS 78-93-3)	Ceiling	900 mg/m3	
	TWA	600 mg/m3	
Dimethyl ether (CAS	Ceiling	2000 mg/m3	
15-10-6)	TWA	1000 mg/m3	
Zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m3	
	TWA	2 mg/m3	
Denmark		3	
Components	Туре	Value	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	25 ppm	
Denmark. Exposure Limit Values			
Components	Туре	Value	
outanone; ethyl methyl	TLV	145 mg/m3	
tetone (CAS 78-93-3)		50 ppm	
Dimethyl ether (CAS	TLV	1920 mg/m3	
115-10-6)	124	1020 mg/mo	
		1000 ppm	
Zinc oxide (CAS 1314-13-2)	TLV	4 mg/m3	
Estonia. OELs. Occupational Exposi Components	ure Limits of Hazardous Sul Type	ostances (Regulation No. 105 Value	/2001, Annex), as amended
outanone; ethyl methyl	STEL	900 mg/m3	
ketone (CAS 78-93-3)		200	
	T\\/^	300 ppm	
	TWA	600 mg/m3	
		200 ppm	
N: 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T) A / A	1000 / 6	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	

inc oxide (CAS 1314-13-2	2) TWA	5 mg/m3
inland components	Туре	Value
lydrocarbons, C9-C11, -alkanes, isoalkanes, yclics, < 2% aromatics	TWA	500 mg/m3
inland. Workplace Expo	osure Limits	
components	Туре	Value Form
utanone; ethyl methyl etone (CAS 78-93-3)	STEL	300 mg/m3
		100 ppm
	TWA	60 mg/m3
Since - 41-12 (1) (2.4.2.		20 ppm
imethyl ether (CAS 15-10-6)	TWA	2000 mg/m3
/		1000 ppm
inc oxide (CAS 1314-13-2	2) STEL	10 mg/m3 Fume.
	TWA	2 mg/m3 Fume.
rance		
omponents	Туре	Value
lydrocarbons, C6-C7, -alkanes,isoalkanes,cycli ,< 5% n-hexane	STEL c	1500 mg/m3
,	TWA	1000 mg/m3
rance. OELs. Indicative omponents	Occupational Exposure Limits as Presc Type	ribed by Order of 30 June 2004, as amended Value
ompononto	1,700	value
imethyl ether (CAS	VME	1920 mg/m3
imethyl ether (CAS	-	1920 mg/m3
imethyl ether (CAS	-	1920 mg/m3 1920 mg/m3
imethyl ether (CAS	-	1920 mg/m3 1920 mg/m3 1000 ppm
imethyl ether (CAS 15-10-6)	VME	1920 mg/m3 1920 mg/m3 1000 ppm 1000 ppm
imethyl ether (CAS 15-10-6) rance. OELs. Occupatio	VME	1920 mg/m3 1920 mg/m3 1000 ppm
Dimethyl ether (CAS 15-10-6)	VME onal Exposure Limits as Prescribed by A	1920 mg/m3 1920 mg/m3 1000 ppm 1000 ppm rt. R.4412-149 of Labor Code, as amended
pimethyl ether (CAS 15-10-6) rance. OELs. Occupation components utanone; ethyl methyl	VME Donal Exposure Limits as Prescribed by A Type	1920 mg/m3 1920 mg/m3 1000 ppm 1000 ppm rt. R.4412-149 of Labor Code, as amended Value
imethyl ether (CAS 15-10-6) rance. OELs. Occupation omponents utanone; ethyl methyl	VME Donal Exposure Limits as Prescribed by A Type	1920 mg/m3 1920 mg/m3 1000 ppm 1000 ppm rt. R.4412-149 of Labor Code, as amended Value 900 mg/m3 300 ppm 600 mg/m3
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France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Type Value Form

Zinc oxide (CAS 1314-13-2) VME 5 mg/m3 Fume.

Regulatory status: Indicative limit (VL)

10 mg/m3 Dust.

Regulatory status: Indicative limit (VL)

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

Components	Туре	Value	Form
outanone; ethyl methyl ketone (CAS 78-93-3)	TWA	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	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, n-alkanes,isoalkanes,cyclic s,< 5% n-hexane	TWA	700 mg/m3	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	300 mg/m3	
Germany. TRGS 900, Limit Values in	the Ambient Air at the Workpla		
Components	Туре	Value	Form
outanone; ethyl methyl ketone (CAS 78-93-3)	AGW	600 mg/m3	
		200 ppm	
Dimethyl ether (CAS 115-10-6)	AGW	1900 mg/m3	
T: (0.10 10.11 10.0)	4.0147	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, a Components	s amended) Type	Value	Form
outanone; ethyl methyl	STEL	900 mg/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	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
Hungary. OELs. Joint Decree on Che Components	emical Safety of Workplaces Type	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
,	TWA	600 mg/m3	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	

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Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.
Iceland. OELs. Regulation 154/1999 on oc Components	ccupational exposure limits Type	Value	Form
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		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 Components	Туре	Value	Form
butanone; ethyl methyl	STEL	900 mg/m3	
ketone (CAS 78-93-3)	UILL	ooo mg/mo	
		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 limi Components	it values of chemical substance Type	es in work environment Value	
butanone; ethyl methyl ketone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	200 mg/m3	
		67 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
	TWA	0,5 mg/m3	

Lithuania. OELs. Limit Values for Cher	mical Substances, General Requirem	ents	
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 ex Components	posure limit values (Annex I), Memor Type	ial A Value	
butanone; ethyl methyl	STEL	900 mg/m3	
ketone (CAS 78-93-3)	SIEL	300 ppm	
	TWA	600 mg/m3	
	TWA	-	
Dimethyl other (CAS	T)A/A	200 ppm	
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3	
		1000 ppm	
Malta. OELs. Occupational Exposure L Schedules I and V)		_	rity Act (CAP. 424),
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	
110 10 0)		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	
<i>,</i>	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 Con Components	taminants in the Workplace Type	Value Form	1
butanone; ethyl methyl ketone (CAS 78-93-3)	TLV	220 mg/m3	
D: # 1 # 7010	-	75 ppm	
Dimethyl ether (CAS 115-10-6)	TLV	384 mg/m3	
Zinc oxide (CAS 1314-13-2)	TLV	200 ppm 5 mg/m3 Dust.	
			·

10 mg/m3 Total dust. Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817 Components **Type** Value **Form** STEL butanone; ethyl methyl 900 mg/m3 ketone (CAS 78-93-3) **TWA** 450 mg/m3 Dimethyl ether (CAS 1000 mg/m3 **TWA** 115-10-6) Zinc oxide (CAS 1314-13-2) **STEL** 10 mg/m3 Inhalable fraction. **TWA** 5 mg/m3 Inhalable fraction. Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266) Components **Type** Value 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 mg/m3 115-10-6) 1000 ppm Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796) Components Value **Form Type** STEL butanone; ethyl methyl 300 ppm ketone (CAS 78-93-3) **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 workers from exposure to chemical agents at the workplace Components Value **Form** Type butanone; ethyl methyl STFL 900 mg/m3 ketone (CAS 78-93-3) 300 ppm **TWA** 600 mg/m3 200 ppm Dimethyl ether (CAS **TWA** 1920 mg/m3 115-10-6) 1000 ppm Zinc oxide (CAS 1314-13-2) **STEL** 10 mg/m3 Fume. 5 mg/m3 **TWA** Fume. Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents Components Value Form Type **STEL** butanone; ethyl methyl 900 mg/m3 ketone (CAS 78-93-3) 300 ppm TWA 600 mg/m3 200 ppm Dimethyl ether (CAS **TWA** 1920 mg/m3 115-10-6) 1000 ppm zinc (CAS 7440-66-6) **TWA** 2 mg/m3 Inhalable fraction.

Respirable fraction.

0,1 mg/m3

Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	1 mg/m3	Respirable fume.
	TWA	1 mg/m3	Respirable fume.
Slovenia. OELs. Regulations concerning (Official Gazette of the Republic of Slove)	venia)	•	
Components	Туре	Value	Form
outanone; ethyl methyl ketone (CAS 78-93-3)	TWA	600 mg/m3	
Dimethyl ether (CAS	TWA	200 ppm 1920 mg/m3	
15-10-6)	IVVA	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
outanone; ethyl methyl	STEL	900 mg/m3	
ketone (CAS 78-93-3)		200 nnm	
	TWA	300 ppm 600 mg/m3	
	IVVA	200 ppm	
Dimethyl ether (CAS	TWA	1920 mg/m3	
115-10-6)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		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, cyclics, < 2% aromatics	STEL (STV)	600 mg/m3	
	TWA	300 mg/m3	
Sweden. OELs. Work Environment Aut Components	hority (AV), Occupational E Type	xposure Limit Values (AFS Value	2015:7) Form
outanone; ethyl methyl ketone (CAS 78-93-3)	Ceiling	900 mg/m3	
(3.12.10.00.0)		300 ppm	
	TWA	150 mg/m3	
		50 ppm	
Dimethyl ether (CAS 115-10-6)	STEL	1500 mg/m3	
		800 ppm	
	TWA	950 mg/m3	
Zino ovido (CAS 4244 42 2)	T\\/\	500 ppm	Total dust
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Total dust.
Switzerland Components	Туре	Value	
Hydrocarbons, C6-C7,	TWA	500 ppm	

omponents	Туре	Value	
Hydrocarbons, C9-C11, -alkanes, isoalkanes, cyclics, < 2% aromatics	STEL	6000 mg/m3	
	TWA	300 mg/m3	
Switzerland. SUVA Grenzwerte am			_
Components	Туре	Value	Form
outanone; 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 Lir	nits (WELs)		
Components	Type	Value	Form
outanone; 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	
7' '1 (040 4044 40.0)	T14/4	400 ppm	
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
EU. Indicative Exposure Limit Valu Components	les in Directives 91/322/EEC, Type	2000/39/EC, 2006/15/EC, 2009 Value	/161/EU, 2017/164/EU
outanone; 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	
ogical limit values			

Bio

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, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065) Components Value Determinant Specimen Sampling Time butanone; ethyl methyl Urine 2 mg/l Méthyléthylcéto ketone (CAS 78-93-3)

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

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

Components	Value	Determinant	Specimen	Sampling Time
butanone; ethyl methyl ketone (CAS 78-93-3)	150 mg/l	2-Butanon	Urine	*

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

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of

biological exposure (effect) indices						
Components	Value	Determinant	Specimen	Sampling Time		
butanone: ethyl methyl	2 ua/l	MEK	Urine	*		

ketone (CAS 78-93-3) 28 µmol/l MEK Urine

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4 Components Value **Determinant Specimen** Sampling Time butanone; ethyl methyl 2 mg/l Metiletilcetona Urine

ketone (CAS 78-93-3)

Switzerland, BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Determinant	Specimen	Sampling Time
butanone; ethyl methy	yl 2 mg/l	2-Butanon	Urine	*
ketone (CAS 78-93-3)	(MEK)		

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

LIK FH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling Time
butanone; ethyl methyl ketone (CAS 78-93-3)	70 umol/l	Butan-2-one	Urine	*

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

Recommended monitoring

Follow standard monitoring procedures.

procedures

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes
butanone; ethyl methyl ketone (CAS 78-93	3-3)		
Long-term, Systemic, Dermal	412 mg/kg bw/day	2	Repeated dose toxicity
Long-term, Systemic, Inhalation	106 mg/m3	2	Repeated dose toxicity
calcium;2-ethylhexanoate (CAS 136-51-6)			
Long-term, Systemic, Dermal	6 mg/kg bw/day	40	Effect on fertility
Long-term, Systemic, Inhalation	8 mg/m3	10	Effect on fertility
Dimethyl ether (CAS 115-10-6)			
Long-term, Systemic, Inhalation	471 mg/m3	25	Repeated dose toxicity
Hydrocarbons, C6-C7, n-alkanes,isoalkan	es,cyclics,< 5% n-hexane (C/	AS -)	
Long-term, Systemic, Dermal	699 mg/kg bw/day		
Long-term, Systemic, Inhalation	608 mg/m3		
Long-term, Systemic, Oral	699 mg/kg bw/day		
Hydrocarbons, C9-C11, n-alkanes, isoalka	anes, cyclics, < 2% aromatics	(CAS -)	
Long-term, Systemic, Dermal	300 mg/kg		
Long-term, Systemic, Inhalation	900 mg/m3		
Long-term, Systemic, Oral	300 mg/kg		
Workers			

Components	Value	Assessment factor	Notes
butanone; ethyl methyl ketone (CAS 78-93-3	3)		
Long-term, Systemic, Dermal	1161 mg/kg bw/day	1	Repeated dose toxicity
Long-term, Systemic, Inhalation	600 mg/m3	1	Repeated dose toxicity
calcium;2-ethylhexanoate (CAS 136-51-6)			
Long-term, Systemic, Dermal	5,67 mg/kg bw/day	20	developmental toxicity / teratogenicity
Long-term, Systemic, Inhalation	32 mg/m3	5	developmental toxicity / teratogenicity

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

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

Dimethyl ether (CAS 115-10-6)

Long-term, Systemic, Inhalation 1894 mg/m3 12.5 Repeated dose toxicity

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

Long-term, Systemic, Dermal 773 mg/kg bw/day Long-term, Systemic, Inhalation 2035 mg/m3

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

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

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
butanone; ethyl methyl ketone (CAS 78-93-3)			
Freshwater	55,8 mg/l	1	
Secondary poisoning	1000 mg/kg	30	Oral
Sediment (freshwater)	284,74 mg/kg		
Soil	22,5 mg/kg	1	
Dimethyl ether (CAS 115-10-6)			
Freshwater	0,155 mg/l	1000	
Sediment (freshwater)	0,681 mg/kg		
Soil	0,045 mg/kg		
STP	160 mg/l	10	
zinc (CAS 7440-66-6)			
Freshwater	20,6 μg/l	1	
Sediment (freshwater)	117,8 mg/kg	1	
Soil	35,6 mg/kg	1	
STP	100 μg/l	1	

Exposure guidelines

Austria MAK: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Denmark GV: Skin designation

butanone: ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

France INRS: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Germany DFG MAK (advisory): Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Germany TRGS 900 Limit Values: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Hungary OELs: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Iceland OELs: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Netherlands OELs (binding): Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

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

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

UK EH40 WEL: Skin designation

butanone; ethyl methyl ketone (CAS 78-93-3) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

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.

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with Respiratory protection

organic vapour cartridge and full facepiece. (Filter type AX)

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

When using do not smoke. Always observe good personal hygiene measures, such as washing Hygiene measures

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

Physical state Liquid. Aerosol. **Form** Colour Grey

Odour Characteristic odor.

-86,6 °C (-124 °F) estimated Melting point/freezing point **Boiling point or initial boiling** 61 °C (141,8 °F) estimated

point and boiling range

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Explosive limit - lower (%) 0,6 % estimated Explosive limit - upper 10 % estimated

(%)

< 0 °C (< 32,0 °F) Closed cup Flash point

> 200 °C (> 392 °F) **Auto-ignition temperature** Not available. **Decomposition temperature** Not applicable. pН

Solubility(ies)

Insoluble in water Solubility (water) Vapour pressure Not available. Vapour density Not available. 1,42 g/cm3 at 20°C Relative density

Particle characteristics 9.2. Other information

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

Not available.

9.2.2. Other safety characteristics

Explosive properties Not explosive. Heat of combustion (NFPA

30B)

15,55 kJ/g estimated

Oxidising properties Not oxidising 640 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. 10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid high temperatures.

Strong oxidising agents. Amines. Ammonia. Caustics. Isocyanates. 10.5. Incompatible materials

Carbon oxides. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of Ingestion

occupational exposure.

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. **Symptoms**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

11.1. Information on toxicological effects

Based on available data, the classification criteria are not met. Acute toxicity

Components **Species Test Results**

butanone; ethyl methyl ketone (CAS 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,isoalkanes,cyclics,< 5% n-hexane

<u>Acute</u>

Dermal

LD50 Rat 2920 mg/kg bw/day, 24 h

Inhalation

LC50 Rat 25200 mg/m3, 4 h

Oral

LD50 Rat 5840 mg/kg bw/day

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

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

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

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Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Based on available data, the classification criteria are not met. Respiratory sensitisation 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. Based on available data, the classification criteria are not met. Carcinogenicity

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Not likely, due to the form of the product.

Mixture versus substance

information

Not available.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Very toxic to aquatic life with long lasting effects.

Components	Species	Test Results
Dimethyl ether (CAS 115-10-6)		

Aquatic

Acute

Crustacea EC50 Daphnia 4,4 mg/l Fish LC50 Fish 4,1 mg/l

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

Aquatic

Acute

Algae EC50 Algae > 30 - < 100 mg/l, 72 h Crustacea EC50 Daphnia 3 mg/l, 48 h

Fish LC50 11,4 mg/l, 96 h Fish

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

Acute

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

Aquatic

Acute

Fish LC50 Oncorhynchus mykiss > 1000 mg/l

Zinc oxide (CAS 1314-13-2)

Acute

EC50 Selenastrum capricornutum (new name 0,137 mg/l, 72 hours

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

Pseudokirchnerella subca

Aquatic

Acute

Crustacea EC50 Daphnia magna 0,413 mg/l, 48 hours

Chronic

12.2. Persistence and

NOEC Crustacea Daphnia magna 82 µg/l, 7 days

degradability

12.3. Bioaccumulative potential

Material name: MZ-90 - Action Can - UK BDS002613AE Version #: 1,0 Revision date: 25-March-2022 Issue date: 25-March-2022

SDS FU

Partition coefficient n-octanol/water (log Kow)

butanone; ethyl methyl ketone 0,29 Dimethyl ether 0.1

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential. GWP: 1

Substance Global Warming Potential per (Annex IV), Regulation 517/2014/EU on fluorinated greenhouse gases, as amended

Dimethyl ether (CAS 115-10-6)

1

12.8. Additional information

Estonia Dangerous substances 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 (Zn) 1000 mg/kg

Zinc oxide (CAS 1314-13-2)

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

The Waste code should be assigned in discussion between the user, the producer and the waste EU waste code

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents Disposal methods/information

> under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

UN1950 14.1. UN number 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 ADR/RID - Classification 5F

code:

Not applicable 14.4. Packing group

14.5. Environmental hazards Yes

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

for user

IATA

UN1950 14.1. UN number

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 Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Maritime transport in bulk Not established.

according to IMO instruments

ADR; IATA; IMDG



Marine pollutant



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

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Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

zinc (CAS 7440-66-6) Zinc oxide (CAS 1314-13-2)

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

butanone; ethyl methyl ketone (CAS 78-93-3)

Dimethyl ether (CAS 115-10-6)

zinc (CAS 7440-66-6)

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

butanone; ethyl methyl ketone (CAS 78-93-3)

Dimethyl ether (CAS 115-10-6)

zinc (CAS 7440-66-6)

Zinc oxide (CAS 1314-13-2)

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 information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,

labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VLE: Exposure Limit Value.

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VME: Exposure Average Value.

VOC: Volatile organic compounds.

vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

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 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

Training information

Disclaimer

Follow training instructions when handling this material.

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