

Maston - TWO 2-Component Primer 20000518, 20000519, 20000520, 20000521

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Maston - TWO 2-Component Primer

20000518, 20000519, 20000520, 20000521

Other means of identification:

Tuotenumerot/Product numbers: 20000518, 20000519, 20000520, 20000521, 20000518-EU, 20000519-EU, 20000521-EU

20000521-EU

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

Relevant uses: Paint

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Maston Oy Teollisuustie 10 FI 02880 Veikkola - Finland

Phone: +358 20 7188 580 maston@maston.fi

1.4 Emergency telephone number: UK National Health Service (NHS) call 111 or, in life-threatening emergencies, call 999

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).

Aerosol 1: Pressurised container: May burst if heated., H229

Aerosol 1: Flammable aerosols, Category 1, H222

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Irrit. 2: Eye irritation, Category 2, H319 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Danger





Hazard statements:

Aerosol 1: H229 - Pressurised container: May burst if heated.

Aerosol 1: H222 - Extremely flammable aerosol.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H336 - May cause drowsiness or dizziness.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

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.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

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

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

Supplementary information:

EUH205: Contains epoxy constituents. May produce an allergic reaction.

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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SECTION 2: HAZARDS IDENTIFICATION (continued)

Substances that contribute to the classification

acetone (CAS: 67-64-1); 1-methoxy-2-propanol (CAS: 107-98-2); Bis-[4-(2,3-epoxipropoxi)phenyl]propane (CAS: 1675-54-3);

Butanone (CAS: 78-93-3)

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aerosol

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

	Identification	Chemical name/Classification	Concentration
CAS:	67-64-1	acetone Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	20 - <40 %
CAS:	107-98-2	1-methoxy-2-propanol Flam. Liq. 3: H226; STOT SE 3: H336 - Warning	10 - <20 %
CAS:	1675-54-3	Bis-[4-(2,3-epoxipropoxi)phenyl]propane Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	5 - <10 %
CAS:	78-93-3	Butanone Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	1 - <2,5 %
CAS:	123-86-4	N-butyl acetate Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	1 - <2,5 %
CAS:	13463-67-7	Titanium dioxide (aerodynamic diameter ≤ 10 μm) Carc. 2: H351 - Warning	1 - <2,5 %
CAS:	108-10-1	4-methylpentan-2-one Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger 🚸 🕩 🕸	0,25 - <0,5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acut	Genus	
4-methylpentan-2-one	LD50 oral	Not relevant	
CAS: 108-10-1	LD50 dermal	Not relevant	
	LC50 inhalation	11 mg/L	Rat

SECTION 4: FIRST AID MEASURES

4.1 **Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

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SECTION 4: FIRST AID MEASURES (continued)

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 **Extinguishing media:**

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

Advice for firefighters: 5.3

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

Reference to other sections: 6.4

See sections 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 50 °C

Maximum time: 36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occ	Occupational exposure limits		
Xylene (1)	WEL (8h)	50 ppm	220 mg/m ³	
CAS: 1330-20-7	WEL (15 min)	100 ppm	441 mg/m ³	
Toluene (1)	WEL (8h)	50 ppm	191 mg/m ³	
CAS: 108-88-3	WEL (15 min)	100 ppm	384 mg/m ³	
Ethylbenzene (1)	WEL (8h)	100 ppm	441 mg/m ³	
CAS: 100-41-4	WEL (15 min)	125 ppm	552 mg/m ³	
1-methoxy-2-propanol (1)	WEL (8h)	100 ppm	375 mg/m ³	
CAS: 107-98-2	WEL (15 min)	150 ppm	560 mg/m ³	
acetone	WEL (8h)	500 ppm	1210 mg/m ³	
CAS: 67-64-1	WEL (15 min)	1500 ppm	3620 mg/m ³	
N-butyl acetate	WEL (8h)	150 ppm	724 mg/m ³	
CAS: 123-86-4	WEL (15 min)	200 ppm	966 mg/m ³	
Butanone	WEL (8h)	200 ppm	600 mg/m ³	
CAS: 78-93-3	WEL (15 min)	300 ppm	899 mg/m ³	
2-methylpropan-1-ol	WEL (8h)	50 ppm	154 mg/m ³	
CAS: 78-83-1	WEL (15 min)	75 ppm	231 mg/m ³	
Reaction mass of ethylbenzene and xylene	WEL (8h)	50 ppm	220 mg/m ³	
CAS: Non-applicable	WEL (15 min)	100 ppm	441 mg/m ³	
2-methoxy-1-methylethyl acetate (1)	WEL (8h)	50 ppm	274 mg/m ³	
CAS: 108-65-6	WEL (15 min)	100 ppm	548 mg/m ³	
Rosin	WEL (8h)		0.05 mg/m ³	
CAS: 8050-09-7	WEL (15 min)		0.15 mg/m ³	
4-methylpentan-2-one	WEL (8h)	50 ppm	208 mg/m ³	
CAS: 108-10-1	WEL (15 min)	100 ppm	416 mg/m ³	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupa	ational exposure lir	nits
Dimethyl ether	WEL (8h)	400 ppm	766 mg/m ³
CAS: 115-10-6	WEL (15 min)	500 ppm	958 mg/m ³
Titanium dioxide (aerodynamic diameter ≤ 10 µm)	WEL (8h)		4 mg/m ³
CAS: 13463-67-7	WEL (15 min)		

⁽¹⁾ Skin

Biological limit values:

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVS) - EH40/2005

biological ficial ordina dolbrate values (bilevs) Enricy 200	,,,		
Identification	NULL	NULL	NULL
Xylene CAS: 1330-20-7	1030 mg/g (Creatinine)	Methyl hippuric acid in urine	Post shift
Butanone CAS: 78-93-3	5 mg/L	Butan-2-one in urine	Post shift
Reaction mass of ethylbenzene and xylene CAS: Non-applicable	1030 mg/g (Creatinine)	Methyl hippuric acid in urine	Post shift
4-methylpentan-2-one CAS: 108-10-1	2 mg/L	4-methylpentan-2-one in urine	Post shift

DNEL (Workers):

		Short	ort exposure Long exposur		exposure
Identification		Systemic	Local	Systemic	Local
acetone	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 67-64-1	Dermal	Not relevant	Not relevant	186 mg/kg	Not relevant
EC: 200-662-2	Inhalation	Not relevant	2420 mg/m ³	1210 mg/m ³	Not relevant
1-methoxy-2-propanol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 107-98-2	Dermal	Not relevant	Not relevant	183 mg/kg	Not relevant
EC: 203-539-1	Inhalation	553.5 mg/m ³	553.5 mg/m ³	369 mg/m ³	Not relevant
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1675-54-3	Dermal	Not relevant	Not relevant	0.75 mg/kg	Not relevant
EC: 216-823-5	Inhalation	Not relevant	Not relevant	4.93 mg/m ³	Not relevant
Butanone	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 78-93-3	Dermal	Not relevant	Not relevant	1161 mg/kg	Not relevant
EC: 201-159-0	Inhalation	Not relevant	Not relevant	600 mg/m ³	Not relevant
N-butyl acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 123-86-4	Dermal	11 mg/kg	Not relevant	11 mg/kg	Not relevant
EC: 204-658-1	Inhalation	600 mg/m ³	600 mg/m ³	300 mg/m ³	300 mg/m ³
4-methylpentan-2-one	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 108-10-1	Dermal	Not relevant	Not relevant	11.8 mg/kg	Not relevant
EC: 203-550-1	Inhalation	208 mg/m ³	208 mg/m ³	83 mg/m ³	83 mg/m ³

DNEL (General population):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
acetone	Oral	Not relevant	Not relevant	62 mg/kg	Not relevant
CAS: 67-64-1	Dermal	Not relevant	Not relevant	62 mg/kg	Not relevant
EC: 200-662-2	Inhalation	Not relevant	Not relevant	200 mg/m ³	Not relevant
1-methoxy-2-propanol	Oral	Not relevant	Not relevant	33 mg/kg	Not relevant
CAS: 107-98-2	Dermal	Not relevant	Not relevant	78 mg/kg	Not relevant
EC: 203-539-1	Inhalation	Not relevant	Not relevant	43.9 mg/m ³	Not relevant
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	Oral	Not relevant	Not relevant	0.5 mg/kg	Not relevant
CAS: 1675-54-3	Dermal	Not relevant	Not relevant	0.0893 mg/kg	Not relevant
EC: 216-823-5	Inhalation	Not relevant	Not relevant	0.87 mg/m ³	Not relevant
Butanone	Oral	Not relevant	Not relevant	31 mg/kg	Not relevant
CAS: 78-93-3	Dermal	Not relevant	Not relevant	412 mg/kg	Not relevant
EC: 201-159-0	Inhalation	Not relevant	Not relevant	106 mg/m ³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short e	xposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
N-butyl acetate	Oral	2 mg/kg	Not relevant	2 mg/kg	Not relevant
CAS: 123-86-4	Dermal	6 mg/kg	Not relevant	6 mg/kg	Not relevant
EC: 204-658-1	Inhalation	300 mg/m ³	300 mg/m ³	35.7 mg/m ³	35.7 mg/m ³
4-methylpentan-2-one	Oral	Not relevant	Not relevant	4.2 mg/kg	Not relevant
CAS: 108-10-1	Dermal	Not relevant	Not relevant	4.2 mg/kg	Not relevant
EC: 203-550-1	Inhalation	155.2 mg/m ³	155.2 mg/m ³	14.7 mg/m ³	14.7 mg/m ³

PNEC:

Identification				
acetone	STP	100 mg/L	Fresh water	10.6 mg/L
CAS: 67-64-1	Soil	29.5 mg/kg	Marine water	1.06 mg/L
EC: 200-662-2	Intermittent	21 mg/L	Sediment (Fresh water)	30.4 mg/kg
	Oral	Not relevant	Sediment (Marine water)	3.04 mg/kg
1-methoxy-2-propanol	STP	100 mg/L	Fresh water	10 mg/L
CAS: 107-98-2	Soil	4.59 mg/kg	Marine water	1 mg/L
EC: 203-539-1	Intermittent	100 mg/L	Sediment (Fresh water)	52.3 mg/kg
	Oral	Not relevant	Sediment (Marine water)	5.2 mg/kg
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	STP	10 mg/L	Fresh water	0.006 mg/L
CAS: 1675-54-3	Soil	0.065 mg/kg	Marine water	0.001 mg/L
EC: 216-823-5	Intermittent	0.018 mg/L	Sediment (Fresh water)	0.341 mg/kg
	Oral	0.011 g/kg	Sediment (Marine water)	0.034 mg/kg
Butanone	STP	709 mg/L	Fresh water	55.8 mg/L
CAS: 78-93-3	Soil	22.5 mg/kg	Marine water	55.8 mg/L
EC: 201-159-0	Intermittent	55.8 mg/L	Sediment (Fresh water)	284.74 mg/kg
	Oral	1 g/kg	Sediment (Marine water)	284.7 mg/kg
N-butyl acetate	STP	35.6 mg/L	Fresh water	0.18 mg/L
CAS: 123-86-4	Soil	0.09 mg/kg	Marine water	0.018 mg/L
EC: 204-658-1	Intermittent	0.36 mg/L	Sediment (Fresh water)	0.981 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.098 mg/kg
4-methylpentan-2-one	STP	27.5 mg/L	Fresh water	0.6 mg/L
CAS: 108-10-1	Soil	1.3 mg/kg	Marine water	0.06 mg/L
EC: 203-550-1	Intermittent	1.5 mg/L	Sediment (Fresh water)	8.27 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.83 mg/kg

8.2 **Exposure controls:**

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding << UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.

C.- Specific protection for the hands



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Linear low -density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remarks
Mandatory complete body protection	Antistatic and fireproof protective clothing	Limited protection against flames.
Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
1	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	*	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 77.25 % weight

V.O.C. density at 20 °C: 653.52 kg/m³ (653.52 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Aerosol
Appearance: Not available

Colour: According to the markings on the package

Odour: Not available
Odour threshold: Not relevant *

Volatility:

Boiling point at atmospheric pressure: -25 - 2230 °C (Propellant)
*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Vapour pressure at 20 °C: 359970 Pa

Vapour pressure at 50 °C: 729940.07 Pa (729.94 kPa)

Evaporation rate at 20 °C: Not relevant *

Product description:

Density at 20 °C: 846 kg/m³ Relative density at 20 °C: 0.846

Dynamic viscosity at 20 °C: Not relevant * Kinematic viscosity at 20 °C: Not relevant * Kinematic viscosity at 40 °C: Not relevant * Concentration: Not relevant * pH: Not relevant * Vapour density at 20 °C: Not relevant * Partition coefficient n-octanol/water 20 °C: Not relevant * Solubility in water at 20 °C: Not relevant * Solubility properties: Not relevant * Not relevant * Decomposition temperature: Melting point/freezing point: Not relevant * Recipient pressure: Not relevant *

Flammability:

Flash Point:

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

Autoignition temperature:

Not relevant *

Not relevant *

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Not relevant *

Corrosive to metals:

Not relevant *

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Not relevant *

Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

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SECTION 10: STABILITY AND REACTIVITY (continued)

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
 - IARC: Xylene (3); Toluene (3); Ethylbenzene (2B); Bis-[4-(2,3-epoxipropoxi)phenyl]propane (3); Solvent naphtha (petroleum), light arom., < 0.1% EC 200-753-7 (3); Hydrocarbons, C9, aromatics (3); Reaction mass of ethylbenzene and xylene (3); 4-methylpentan-2-one (2B); Titanium dioxide (aerodynamic diameter $\leq 10 \mu m$) (2B)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

G- Specific target organ toxicity (STOT)-repeated exposure:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

CAS 13463-67-7 Titanium dioxide (aerodynamic diameter $\leq 10~\mu m$): The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10~\mu m$

Specific toxicology information on the substances:

Identification	Ac	cute toxicity	Genus
1-methoxy-2-propanol	LD50 oral	>5000 mg/kg	
CAS: 107-98-2	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
acetone	LD50 oral	5800 mg/kg	Rat
CAS: 67-64-1	LD50 dermal	7426 mg/kg	Rabbit
	LC50 inhalation	76 mg/L (4 h)	Rat
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
	LC50 inhalation	23.4 mg/L (4 h)	Rat
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 oral	>5000 mg/kg	
CAS: 1675-54-3	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Butanone	LD50 oral	4000 mg/kg	Rat
CAS: 78-93-3	LD50 dermal	6400 mg/kg	Rabbit
	LC50 inhalation	23.5 mg/L (4 h)	Rat
Titanium dioxide (aerodynamic diameter ≤ 10 µm)	LD50 oral	10000 mg/kg	Rat
CAS: 13463-67-7	LD50 dermal	10000 mg/kg	Rabbit
	LC50 inhalation	>5 mg/L	
4-methylpentan-2-one	LD50 oral	>5000 mg/kg	
CAS: 108-10-1	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	11 mg/L (4 h)	Rat

Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral	184781.13 mg/kg (Calculation method)	Non-applicable
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available Harmful to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
acetone	LC50 5540 mg/L (96 h)		Oncorhynchus mykiss	Fish
CAS: 67-64-1	EC50 8800 mg/L (48 h)		Daphnia pulex	Crustacean
	EC50 3400 mg/L (48 h)		Chlorella pyrenoidosa	Algae
1-methoxy-2-propanol	LC50	20800 mg/L (96 h)	Pimephales promelas	Fish
CAS: 107-98-2	EC50	23300 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1000 mg/L (168 h)	Selenastrum capricornutum	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Concentration	Species	Genus
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	LC50	2 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1675-54-3	EC50	1.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	9.4 mg/L (72 h)	Scenedesmus subspicatus	Algae
Butanone	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3		5091 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Algae
N-butyl acetate	LC50	Not relevant		
CAS: 123-86-4	EC50	Not relevant		
	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
4-methylpentan-2-one	LC50	900 mg/L (48 h)	Leuciscus idus	Fish
CAS: 108-10-1		862 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	980 mg/L (48 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
acetone	NOEC	Not relevant		
CAS: 67-64-1	NOEC	2212 mg/L	Daphnia magna	Crustacean
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	NOEC	Not relevant		
CAS: 1675-54-3	NOEC	0.3 mg/L	Daphnia magna	Crustacean
N-butyl acetate	NOEC	Not relevant		
CAS: 123-86-4	NOEC	23.2 mg/L	Daphnia magna	Crustacean
4-methylpentan-2-one	NOEC	Not relevant		
CAS: 108-10-1	NOEC	78 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	De	gradability	Biode	egradability
acetone	BOD5	Not relevant	Concentration	100 mg/L
CAS: 67-64-1	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	96 %
1-methoxy-2-propanol	BOD5	Not relevant	Concentration	100 mg/L
CAS: 107-98-2	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	90 %
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	BOD5	Not relevant	Concentration	Not relevant
CAS: 1675-54-3	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	5 %
Butanone	BOD5	2.03 g O2/g	Concentration	Not relevant
CAS: 78-93-3	COD	2.31 g O2/g	Period	20 days
	BOD5/COD	0.88	% Biodegradable	89 %
N-butyl acetate	BOD5	Not relevant	Concentration	Not relevant
CAS: 123-86-4	COD	Not relevant	Period	5 days
	BOD5/COD	Not relevant	% Biodegradable	84 %
4-methylpentan-2-one	BOD5	2.06 g O2/g	Concentration	100 mg/L
CAS: 108-10-1	COD	2.16 g O2/g	Period	14 days
	BOD5/COD	0.95	% Biodegradable	84 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential		
acetone	BCF	1	
CAS: 67-64-1	Pow Log	-0.24	
	Potential	Low	
1-methoxy-2-propanol	BCF	3	
CAS: 107-98-2	Pow Log	-0.44	
	Potential	Low	

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioac	Bioaccumulation potential		
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	BCF	31		
CAS: 1675-54-3	Pow Log	3		
	Potential	Moderate		
Butanone	BCF	3		
CAS: 78-93-3	Pow Log	0.29		
	Potential	Low		
N-butyl acetate	BCF	4		
CAS: 123-86-4	Pow Log	1.78		
	Potential	Low		
4-methylpentan-2-one	BCF	2		
CAS: 108-10-1	Pow Log	1.31		
	Potential	Low		

12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		Volatility	
acetone	Koc	1	Henry	2.93 Pa·m³/mol	
CAS: 67-64-1	Conclusion	Very High	Dry soil	Yes	
	Surface tension	2.304E-2 N/m (25 °C)	Moist soil	Yes	
Bis-[4-(2,3-epoxipropoxi)phenyl]propane	Koc	450	Henry	Not relevant	
CAS: 1675-54-3	Conclusion	Low	Dry soil	Not relevant	
	Surface tension	Not relevant	Moist soil	Not relevant	
Butanone	Koc	30	Henry	5.77 Pa·m³/mol	
CAS: 78-93-3	Conclusion	Very High	Dry soil	Yes	
	Surface tension	2.396E-2 N/m (25 °C)	Moist soil	Yes	
N-butyl acetate	Koc	Not relevant	Henry	Not relevant	
CAS: 123-86-4	Conclusion	Not relevant	Dry soil	Not relevant	
	Surface tension	2.478E-2 N/m (25 °C)	Moist soil	Not relevant	
4-methylpentan-2-one	Koc	Not relevant	Henry	Not relevant	
CAS: 108-10-1	Conclusion	Not relevant	Dry soil	Not relevant	
	Surface tension	2.35E-2 N/m (25 °C)	Moist soil	Not relevant	

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	Hazardous

Type of waste:

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

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SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



14.1 UN number: UN1950
14.2 UN proper shipping name: AEROSOLS
14.3 Transport hazard class(es): 2

Labels: 2.1

14.4 Packing group: N/A

14.5 Environmental hazards: No

14.6 Special precautions for user

Tunnel restriction code: D

Physico-Chemical properties: see section 9

Limited quantities: 1 L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:

Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:



14.1 UN number: UN1950
14.2 UN proper shipping name: AEROSOLS
14.3 Transport hazard class(es): 2

Labels: 2.1 **14.4 Packing group:** N/A **14.5 Marine pollutant:** No

14.6 Special precautions for user

Special regulations: 63, 959, 190, 277, 327, 344

EmS Codes: F-D, S-U
Physico-Chemical properties: see section 9

Limited quantities: 1 L

Segregation group: Not relevant

14.7 Transport in bulk according to Annex II of Marpol and

Not relevant

the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



14.1 UN number: UN1950 **14.2 UN proper shipping name:** AEROSOLS

14.3 Transport hazard class(es): 2

 Labels: 2.1

 14.4 Packing group: N/A
 14.5 Environmental hazards: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Transport in bulk according** Not relevant

to Annex II of Marpol and the IBC Code:

SECTION 15: REGULATORY INFORMATION

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

- (Puerto Rico, USA): acetone (67-64-1); 1-methoxy-2-propanol (107-98-2); Bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3); Butanone (78-93-3); N-butyl acetate (123-86-4); Titanium dioxide (aerodynamic diameter ≤ 10 μm) (13463-67-7); 4-methylpentan-2-one (108-10-1)
- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

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SECTION 15: REGULATORY INFORMATION (continued)

The Control of Major Accident Hazards Regulations 2015:

Section	Description	Lower-tier requirements	Upper-tier requirements
P3a	FLAMMABLE AEROSOLS	150	500

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc):

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors: Contains acetone. Product under the provisions of Article 9. However, products that contain explosives precursors only to such a small extent and in such complex mixtures that the extraction of the explosives precursors is technically extremely difficult should be excluded from the scope of this Regulation. Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/130.

Contains Chrome antimony titanium buff rutile.

This product may not be used in:

- (a) in any post assemblies which are inserted into pierced ears and other pierced parts of the human body unless the rate of nickel release from such post assemblies is less than $0.2 \mu g/cm^2/week$ (migration limit);
- (b) the fabrication of articles intended for prolonged direct contact with the skin:
- earrings
- necklaces, bracelets and chains, anklets, finger rings,
- wrist-watch cases, watch straps and tighteners,
- rivet buttons, tighteners, rivets, zippers and metal marks, when these are used in garments

if the rate of nickel release from the parts of these articles coming into direct and prolonged contact with the skin is greater than 0.5 µg/cm²/week.

2. Articles which are the subject of paragraph 1 shall not be placed on the market unless they conform to the requirements set out in that paragraph.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

- H336: May cause drowsiness or dizziness.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H412: Harmful to aquatic life with long lasting effects.
- H229: Pressurised container: May burst if heated.
- H222: Extremely flammable aerosol.
- H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Carc. 2: H351 - Suspected of causing cancer (Inhalation).

Carc. 2: H351 - Suspected of causing cancer. Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Flam. Liq. 3: H226 - Flammable liquid and vapour.

Ckin Trrit 2: 4215 Causes skin irritation

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

STOT SE 3: Calculation method Skin Irrit. 2: Calculation method Skin Sens. 1: Calculation method Aquatic Chronic 3: Calculation method

Aerosol 1: Calculation method Aerosol 1: Calculation method Eye Irrit. 2: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

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IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

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