

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



SPEKTRA 2K EPOXY CONCRETE PAINT – comp. A

Version	Revision Date:	SDS Number:	Date of last issue: 04.01.2023
2.0	16.05.2024	MAT0GA00_032 GB/EN	Date of first issue: 18.05.2020

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

1.1 Product identifier

Trade name : SPEKTRA 2K EPOXY CONCRETE PAINT – comp. A

Product code : Please see section 16 for detailed data

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

Use of the Sub-
stance/Mixture : Building and construction work
Professional and consumer use of coatings, Roller application
or brushing, Non industrial spraying
Coatings and paints, thinners, paint removers

1.3 Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija d.o.o.
Količevo 65
1230 Domžale
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383
productsafety@kansai-helios.si

1.4 Emergency telephone number

Call 999 (or 112) for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892
0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK
SI 2019/720, and UK SI 2020/1567)**

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Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. Prevention: P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P391 Collect spillage. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

2-propenenitrile, reaction products

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m-phenylenebis(methylamine)
3-aminomethyl-3,5,5-trimethylcyclohexylamine
2-methylisothiazol-3(2H)-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Waterborne paint

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Aliphatic polyamine	Not Assigned	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20
2-propenenitrile, reaction products	90530-15-7 292-053-3 01-2120094715-47	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 3 - < 5
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 10
1-methoxypropan-2-ol	107-98-2 203-539-1 603-064-00-3 01-2119457435-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480150-50	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B;	>= 0,25 - < 1

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		H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319	$\geq 0,1 - < 1$
2-methyl-2H-isothiazol-3-one	2682-20-4 220-239-6 613-326-00-9 01-2120764690-50	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 specific concentra- tion limit Skin Sens. 1A; H317 $\geq 0,0015 \%$	$\geq 0,0025 - < 0,01$
Substances with a workplace exposure limit :			
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		$\geq 30 - < 50$
talc	14807-96-6 238-877-9 01-2120140278-58		$\geq 1 - < 10$
triiron tetraoxide	1317-61-9 215-277-5 01-2119457646-28		$\geq 1 - < 10$

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | | |
|-------------------------|---|---|
| General advice | : | Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : | If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician. |
| In case of skin contact | : | If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes. |
| In case of eye contact | : | Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : | Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

- | | | |
|-------|---|---|
| Risks | : | Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage. |
|-------|---|---|

4.3 Indication of any immediate medical attention and special treatment needed

- | | | |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : For further information, refer to the product technical data sheet.
- Consult the technical guidelines for the use of this substance/mixture.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m ³	GB EH40
		TWA (Respirable dust)	4 mg/m ³	GB EH40
Talc	14807-96-6	TWA (Respirable dust)	1 mg/m ³	GB EH40
		TWA (Respirable dust)	0,1 mg/m ³	2004/37/EC
Further information: Carcinogens or mutagens				
triiron tetraoxide	1317-61-9	TWA (Fumes)	5 mg/m ³ (Iron)	GB EH40
		STEL (Fumes)	10 mg/m ³ (Iron)	GB EH40
ethanol	64-17-5	TWA	1.000 ppm 1.920 mg/m ³	GB EH40
1-methoxy-2-propanol	107-98-2	TWA	100 ppm 375 mg/m ³	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	150 ppm 560 mg/m ³	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		TWA	100 ppm 375 mg/m ³	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		STEL	150 ppm 568 mg/m ³	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
2-butoxyethanol	111-76-2	TWA	25 ppm 123 mg/m ³	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	50 ppm	GB EH40

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			246 mg/m ³	
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	20 ppm 98 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxyacetic acid: 240 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT

Derived No Effect Level (DNEL):

according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
titanium dioxide	Workers	Inhalation	Long-term local effects	10 mg/m ³
	Consumers	Oral	Long-term systemic effects	700 mg/kg bw/day
Talc	Workers	Inhalation	Acute systemic effects	2,16 mg/m ³
	Workers	Inhalation	Acute local effects	3,6 mg/m ³
	Consumers	Inhalation	Acute systemic effects	1,08 mg/m ³
	Consumers	Inhalation	Acute local effects	1,8 mg/m ³
	Consumers	Dermal	Long-term local effects	2,27 mg/cm ²
	Workers	Dermal	Long-term local effects	4,54 mg/cm ²
	Consumers	Oral	Long-term systemic effects	160 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	160 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	43,2 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	21,6 mg/kg bw/day
triiron tetraoxide	Workers	Inhalation	Long-term local effects	10 mg/m ³

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ethanol	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Consumers	Inhalation	Acute local effects	950 mg/m3
	Workers	Inhalation	Acute local effects	1900 mg/m3
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3
	Consumers	Oral	Long-term systemic effects	87 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	343 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	206 mg/kg bw/day
1-methoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m3
	Workers	Inhalation	Acute systemic effects	553,5 mg/m3
	Workers	Inhalation	Acute local effects	553,5 mg/m3
	Workers	Inhalation	Long-term systemic effects	43,9 mg/m3
	Workers	Dermal	Long-term systemic effects	183 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	78 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	33 mg/kg bw/day
m-phenylenebis(methylamine)	Workers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Workers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Workers	Inhalation	Long-term local effects	0,2 mg/m3
	Workers	Inhalation	Long-term local effects	0,2 mg/m3
	Workers	Dermal	Long-term systemic effects	0,33 mg/m3
	Workers	Dermal	Long-term systemic effects	0,33 mg/m3
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Workers	Inhalation	Long-term local effects	0,073 mg/m3
	Workers	Inhalation	Acute local effects	0,073 mg/m3
	Consumers	Oral	Long-term systemic effects	0,526 mg/kg bw/day
2-butoxyethanol	Workers	Inhalation	Long-term systemic effects	98 mg/m3
	Workers	Inhalation	Acute systemic effects	1091 mg/m3

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			fects	
	Workers	Inhalation	Acute local effects	246 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	59 mg/m ³
	Consumers	Inhalation	Acute systemic effects	426 mg/m ³
	Consumers	Inhalation	Acute local effects	147 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	125 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	89 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	75 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	89 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	6,3 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	26,7 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
titanium dioxide	Soil	100 mg/kg dry weight (d.w.)
	Marine water	0,0184 mg/l
	Fresh water	0,184 mg/l
	Marine sediment	100 mg/kg dry weight (d.w.)
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
2-propenenitrile, reaction products	Intermittent use/release	0,193 mg/l
	Soil	19,33 mg/kg dry weight (d.w.)
	Marine water	0,00099 mg/l
	Fresh water	0,00992 mg/l
	Marine sediment	9,68 mg/kg dry weight (d.w.)
	Fresh water sediment	96,97 mg/kg dry weight (d.w.)
Talc	Sewage treatment plant	4,65 mg/l
	Intermittent use/release	0,992 mg/l
	Marine water	141,26 mg/l
	Fresh water	597,97 mg/l
	Marine sediment	3,13 mg/kg dry weight (d.w.)

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	Fresh water sediment	31,33 mg/kg dry weight (d.w.)
	Intermittent use/release	597,97 mg/l
ethanol	Soil	0,63 mg/kg dry weight (d.w.)
	Marine water	0,79 mg/l
	Fresh water	0,96 mg/l
	Marine sediment	2,9 mg/kg dry weight (d.w.)
	Fresh water sediment	3,6 mg/kg dry weight (d.w.)
	Sewage treatment plant	580 mg/l
1-methoxy-2-propanol	Soil	4,59 mg/kg dry weight (d.w.)
	Marine water	1 mg/l
	Fresh water	10 mg/l
	Marine sediment	5,2 mg/kg dry weight (d.w.)
	Fresh water sediment	52,3 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Intermittent use/release	100 mg/l
m-phenylenebis(methylamine)	Soil	0,045 mg/kg dry weight (d.w.)
	Soil	0,045 mg/kg dry weight (d.w.)
	Marine water	0,0094 mg/l
	Marine water	0,0094 mg/l
	Fresh water	0,094 mg/l
	Fresh water	0,094 mg/l
	Marine sediment	0,043 mg/kg dry weight (d.w.)
	Marine sediment	0,043 mg/kg dry weight (d.w.)
	Fresh water sediment	0,43 mg/kg dry weight (d.w.)
	Fresh water sediment	0,43 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Sewage treatment plant	10 mg/l
	Intermittent use/release	0,152 mg/l
	Intermittent use/release	0,152 mg/l
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Soil	1,121 mg/kg dry weight (d.w.)
	Marine water	0,006 mg/l
	Fresh water	0,06 mg/l
	Marine sediment	0,578 mg/kg dry

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		weight (d.w.)
	Fresh water sediment	5,784 mg/kg dry weight (d.w.)
	Sewage treatment plant	3,18 mg/l
	Intermittent use/release	0,23 mg/l
2-butoxyethanol	Soil	2,33 mg/kg dry weight (d.w.)
	Marine water	0,88 mg/l
	Fresh water	8,8 mg/l
	Fresh water sediment	34,6 mg/kg dry weight (d.w.)
	Sewage treatment plant	463 mg/l
	Intermittent use/release	9,1 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Equipment should conform to EN 166
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); ISO EN374 |
butyl-rubber (> 0,6 mm; < 240 min); ISO EN374 |
Viton® (> 0,6 mm; < 240 min); ISO EN374 |
PE laminate (> 0,1 mm; < 240 min); ISO EN374 |

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	in accordance with the product description
Odour	:	No information available.
Odour Threshold	:	No data available
pH	:	10 - 11 Concentration: 100 %
Flash point	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Density	:	1,45 - 1,55 g/cm ³
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Viscosity		
Viscosity, kinematic	:	> 20,5 mm ² /s (40 °C)

9.2 Other information

No data available		
VOC	:	(Directive 2004/42/EC) 82 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and bases.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Not classified due to lack of data.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

ethanol:

Acute oral toxicity : LD50 Oral (Rat): \geq 7.060 mg/kg

Acute inhalation toxicity : LC50 (Rat): \geq 39 mg/l
Exposure time: 4 h
Test atmosphere: vapour

1-methoxy-2-propanol:

Acute oral toxicity : LD50 Oral (Rabbit): > 2.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Acute oral toxicity : LD50 (Rat): 1.030 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is moderately toxic after single ingestion.

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Acute dermal toxicity : LD50 (Rat): 2.000 mg/kg
Method: OECD Test Guideline 402

m-phenylenebis(methylamine):

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : LC50 (Rat): 450 ppm
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is toxic after short term inhalation.

Acute toxicity estimate: 3 mg/l
Test atmosphere: vapour

2-methylisothiazol-3(2H)-one:

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : Test atmosphere: vapour
Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

Skin corrosion/irritation

Causes skin irritation.
Causes skin irritation.

Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

2-propenenitrile, reaction products:

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Result : Corrosive after 3 minutes to 1 hour of exposure

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Result : Corrosive after 3 minutes to 1 hour of exposure

m-phenylenebis(methylamine):

Result : Corrosive after 3 minutes to 1 hour of exposure

2-butoxyethanol:

Result : irritating

2-methylisothiazol-3(2H)-one:

Result : Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye damage.
Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

ethanol:

Result : Eye irritation

2-butoxyethanol:

Result : Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

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Product:

Remarks : Causes sensitisation.

Components:

2-propenenitrile, reaction products:

Result : Probability or evidence of skin sensitisation in humans

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Result : Probability or evidence of skin sensitisation in humans

m-phenylenebis(methylamine):

Result : Probability or evidence of skin sensitisation in humans

2-methylisothiazol-3(2H)-one:

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.
Not classified due to lack of data.

Carcinogenicity

Not classified based on available information.
Not classified due to lack of data.

Reproductive toxicity

Not classified based on available information.
Not classified due to lack of data.

STOT - single exposure

Not classified based on available information.
Not classified due to lack of data.

Components:

1-methoxy-2-propanol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.
Not classified due to lack of data.

Aspiration toxicity

Not classified based on available information.
Not classified due to lack of data.

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Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Aliphatic polyamine:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity :
Very toxic to aquatic life with long lasting effects.

ethanol:

Toxicity to fish : LC50 (Fish): ≥ 13.500 mg/l

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): ≥ 5.000 mg/l

1-methoxy-2-propanol:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): > 1.000 mg/l

Toxicity to algae/aquatic plants : LC50 (algae): > 1.000 mg/l

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to fish : LC50 (Fish): ≥ 110 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 23 mg/l

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Toxicity to algae/aquatic plants : EC50 (algae): ≥ 22 mg/l

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

m-phenylenebis(methylamine):

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

2-butoxyethanol:

Toxicity to fish : LC50 (Fish): ≥ 1.700 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): > 1.000 mg/l
Exposure time: 48 h

Toxicity to microorganisms : EC50 (Bacteria): > 5.000 mg/l

2-methylisothiazol-3(2H)-one:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

12.2 Persistence and degradability

Components:

2-butoxyethanol:

Biodegradability : Result: Biodegradable

Stability in water : Hydrolyses slowly.

Photodegradation : Decomposes slowly in contact with light.

2-methylisothiazol-3(2H)-one:

Biodegradability : Result: Biodegradable

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12.3 Bioaccumulative potential

Components:

ethanol:

Partition coefficient: n-
octanol/water : log Pow: -0,32

1-methoxy-2-propanol:

Partition coefficient: n-
octanol/water : log Pow: -0,437

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Partition coefficient: n-
octanol/water : log Pow: 0,79

2-butoxyethanol:

Partition coefficient: n-
octanol/water : log Pow: 0,81 (20 °C)

12.4 Mobility in soil

Components:

2-butoxyethanol:

Mobility : Medium: Air
Content: 1 %

: Medium: Water
Content: 47 %

: Medium: Soil
Content: 52 %

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

2-butoxyethanol:

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Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

12.6 Other adverse effects

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aliphatic polyamine)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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RID : N.O.S.
(Aliphatic polyamine)
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Aliphatic polyamine)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Aliphatic polyamine)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(Aliphatic polyamine)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 9	
ADR	: 9	
RID	: 9	
IMDG	: 9	
IATA	: 9	

14.4 Packing group

ADN
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

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Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered: Number on list 3

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UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) E2 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 82 g/l

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.

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H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H330 : Fatal if inhaled.
H331 : Toxic if inhaled.
H332 : Harmful if inhaled.
H336 : May cause drowsiness or dizziness.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT SE : Specific target organ toxicity - single exposure
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first
list of indicative occupational exposure limit values
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers
from the risks related to exposure to carcinogens or mutagens
at work
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values
2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit
2004/37/EC / TWA : Long term exposure limit
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL

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- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification procedure:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

Material codes (bulk) for : 412573; 412576
which the SDS is valid

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