

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Elmotherm® VA39 SPRAY

Version
9.0 SDB_GB

Revision Date:
21.05.2024

Date of last issue: 16.11.2023
Date of first issue: 03.01.2013

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

1.1 Product identifier

Trade name : Elmotherm® VA39 SPRAY

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

Type of Application (Use) : Spray insulating varnish

Recommended restrictions : For industrial use only.
on use

1.3 Details of the supplier of the safety data sheet

Company : ELANTAS Europe S.r.l.
Strada Antolini 1
43044 Collecchio
Italy

Telephone : +3907363081

Telefax : +390736402746

E-mail address of person : msds.elantas.europe@altana.com
responsible for the SDS

1.4 Emergency telephone number

+44 1235 239670 (All languages)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements : **Prevention:**
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.
P260 Do not breathe dust or mist.
P280 Wear protective gloves/ eye protection/ face protection.

Storage:

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

Hazardous components which must be listed on the label:

acetone

Xylene, mixture of isomers

cobalt bis(2-ethylhexanoate)

octhilinone (ISO)

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated 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

Chemical nature : Polymer with pigment affinic groups

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	≥ 20 - < 25
Xylene, mixture of isomers	1330-20-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	$\geq 12,5$ - < 20
Reaction mass of ethyl benzene and xylene	Not Assigned 01-2119539452-40	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304	$\geq 12,5$ - < 20
propane	74-98-6 200-827-9 601-003-00-5	Flam. Gas 1; H220 Press. Gas	≥ 7 - < 10
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17	Carc. 2; H351	≥ 5 - < 7
Hydrocarbons, C4; Petroleum gas	87741-01-3 289-339-5 649-113-00-2 01-2119480480-41	Flam. Gas 1; H220 Press. Gas	≥ 3 - < 5

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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 Acute toxicity estimate Acute oral toxicity: 1.200 mg/kg 1.200 mg/kg Acute inhalation toxicity (vapour): 3 mg/l	>= 1 - < 3
cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 1B; H360D Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 0,1 - < 0,25
pyrithione zinc	13463-41-7 236-671-3	Acute Tox. 3; H301 Acute Tox. 2; H330 Eye Dam. 1; H318 Repr. 1B; H360D STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000 1.000 M-Factor (Chronic aquatic toxicity): 10 10 Acute toxicity estimate Acute oral toxicity: 221 mg/kg 221 mg/kg Acute inhalation toxicity (dust/mist): 0,14 mg/l 0,14 mg/l	>= 0,0025 - < 0,025
octhilinone (ISO)	26530-20-1 247-761-7 613-112-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1; H314	>= 0,0002 - < 0,0015

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		Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071
		M-Factor (Acute aquatic toxicity): 100 100 M-Factor (Chronic aquatic toxicity): 100 100
		specific concentration limit Skin Sens. 1A; H317 >= 0,0015 % Skin Sens. 1A; H317 >= 0,0015 %
		Acute toxicity estimate Acute oral toxicity: 125 mg/kg 125 mg/kg Acute inhalation toxicity (dust/mist): 0,27 mg/l 0,27 mg/l Acute dermal toxicity: 311 mg/kg 311 mg/kg

Substances with a workplace exposure limit :			
dimethyl ether	115-10-6 204-065-8 603-019-00-8	Flam. Gas 1A; H220 Press. Gas Compr. Gas; H280	>= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.
 Treat symptomatically.

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- Consult a physician.
Do not leave the victim unattended.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Avoid inhalation, ingestion and contact with skin and eyes.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
Oxygen or artificial respiration if needed.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
Use a mild soap if available.
Wash contaminated clothing before re-use.
If skin irritation persists, call a physician.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Keep eye wide open while rinsing.
- If swallowed : Call a physician immediately.
Gently wipe or rinse the inside of the mouth with water.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Nausea
Central nervous system depression
Drowsiness

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Keep containers and surroundings cool with water spray.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : The pressure in sealed containers can increase under the influence of heat.
Warning: water promotes the spread of fire.
Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to health.

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5.3 Advice for firefighters

- Special protective equipment : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
- Further information : Cool containers/tanks with water spray.
Keep away from heat and sources of ignition.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Ensure adequate ventilation.
Keep people away from and upwind of spill/leak.
Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Remove all sources of ignition.

6.2 Environmental precautions

- Environmental precautions : Do not allow material to contaminate ground water system.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Sweep up and shovel into suitable containers for disposal.
Clean contaminated surface thoroughly.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking. Keep away from children.
Operate if possible out of doors or in a well-ventilated place.
- Advice on protection against fire and explosion : Use only in area provided with appropriate exhaust ventilation.

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Hygiene measures : Store personal protection equipment in a clean location away from the work area. Keep working clothes separately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m ³	2000/39/EC
		Further information: Indicative		
		TWA	400 ppm 766 mg/m ³	GB EH40
		STEL	500 ppm 958 mg/m ³	GB EH40
acetone	67-64-1	TWA	500 ppm 1.210 mg/m ³	2000/39/EC
		Further information: Indicative		
		TWA	500 ppm 1.210 mg/m ³	GB EH40
		STEL	1.500 ppm 3.620 mg/m ³	GB EH40
Xylene, mixture of isomers	1330-20-7	TWA	50 ppm 221 mg/m ³	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		STEL	100 ppm 442 mg/m ³	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		TWA	50 ppm 220 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	100 ppm 441 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.		

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titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m ³	GB EH40
		TWA (Respirable dust)	4 mg/m ³	GB EH40
2-butoxyethanol	111-76-2	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			
		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 246 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.			
cobalt bis(2-ethylhexanoate)	136-52-7	TWA	0,1 mg/m ³ (Cobalt)	GB EH40
	Further information: Capable of causing occupational asthma., Capable of causing cancer and/or heritable genetic damage.			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Xylene, mixture of isomers	1330-20-7	methyl hippuric acid: 650 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT
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
acetone	Workers	Inhalation	Acute local effects	2420 mg/m ³
	Workers	Inhalation	Long-term exposure	1210 mg/m ³
	Workers	Skin contact	Long-term exposure	186 mg/kg
	Consumers	Skin contact	Long-term exposure	62 mg/kg
	Consumers	Inhalation	Long-term exposure	200 mg/m ³
	Consumers	Ingestion	Long-term exposure	62 mg/kg
Xylene, mixture of isomers	Workers	Inhalation	Long-term systemic effects	221 mg/m ³
	Workers	Inhalation	Acute local effects	442 mg/m ³
	Workers	Dermal	Long-term systemic effects	212 mg/kg
	Consumers	Inhalation	Long-term systemic	65,3 mg/m ³

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			effects	
	Consumers	Dermal	Long-term systemic effects	125 mg/kg
	Consumers	Oral	Long-term systemic effects	1,5 mg/kg
	Consumers	Inhalation	Acute local effects	260 mg/m3
2-butoxyethanol	Workers	Skin contact	Acute systemic effects	89 mg/kg
	Workers	Inhalation	Acute systemic effects	135 ppm
	Workers	Inhalation	Acute local effects	50 ppm
	Workers	Skin contact	Long-term systemic effects	75 mg/kg
	Workers	Inhalation	Long-term systemic effects	20 ppm
	Consumers	Skin contact	Acute systemic effects	44,5 mg/kg
	Consumers	Inhalation	Acute systemic effects	426 mg/m3
	Consumers	Ingestion	Acute systemic effects	13,4 mg/kg
	Consumers	Inhalation	Acute local effects	123 mg/m3
	Consumers	Skin contact	Long-term systemic effects	38 mg/kg
	Consumers	Inhalation	Long-term systemic effects	49 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3,2 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
acetone	Fresh water	10,6 mg/l
	Marine water	1,06 mg/l
	Fresh water sediment	30,4 mg/kg
	Marine sediment	3,04 mg/kg
	Soil	29,5 mg/kg
	Intermittent releases	21 mg/l
	Sewage treatment plant	19,5 mg/l
Xylene, mixture of isomers	Fresh water	0,327 mg/l
	Marine water	0,327 mg/l
	Fresh water sediment	12,46 mg/kg
	Marine sediment	12,46 mg/kg
	Soil	2,31 mg/kg
	Sewage treatment plant	6,58 mg/l
	Intermittent releases	0,327 mg/l
2-butoxyethanol	Fresh water	8,8 mg/l
	Marine water	0,88 mg/l
	Sewage treatment plant	463 mg/l
	Fresh water sediment	34,6 mg/kg
	Marine sediment	3,46 mg/kg
	Soil	2,8 mg/kg

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8.2 Exposure controls

Personal protective equipment

Eye protection	:	Safety glasses with side-shields conforming to EN166
Hand protection	:	
Material	:	Solvent-resistant gloves (butyl-rubber)
Respiratory protection	:	Equipment should conform to EN 14387
Filter type	:	Type A (A)
Protective measures	:	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	aerosol
Colour	:	grey
Odour	:	solvent-like
Melting point/freezing point	:	lower -15 °C
Boiling point/boiling range	:	< 35 °C
Flammability	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity	:	
Viscosity, kinematic	:	not determined
Solubility(ies)	:	
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	0,75 g/cm ³ (20 °C)
Bulk density	:	Not applicable

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Relative vapour density : lower 1
(Air = 1.0)

Particle characteristics
Particle size : Not applicable

9.2 Other information

Self-ignition : > 250 °C

Heat of combustion : 28 kJ/g

Sublimation point : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases
Strong oxidizing agents
Strong reducing agents

10.6 Hazardous decomposition products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Remarks: see also section 2.1

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

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Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Remarks: see also section 2.1

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Remarks: see also section 2.1

Acute toxicity (other routes of administration) : Remarks: see also section 2.1

Components:

Xylene, mixture of isomers:

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 4.200 mg/kg
GLP: No information available.

Reaction mass of ethyl benzene and xylene:

Acute oral toxicity : LD50 (Rat, male): 3.523 mg/kg
Method: Directive 67/548/EEC, Annex V, B.1.

2-butoxyethanol:

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

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

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l
Test atmosphere: vapour
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

pyrithione zinc:

Acute oral toxicity : Acute toxicity estimate: 221 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 221 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
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Acute inhalation toxicity : Acute toxicity estimate: 0,14 mg/l

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Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 0,14 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

octhilinone (ISO):

Acute oral toxicity : Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute dermal toxicity : Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC)
No. 1272/2008

Skin corrosion/irritation

Product:

Remarks : No data available

Components:

2-butoxyethanol:

Species : Rabbit
Result : Skin irritation

Serious eye damage/eye irritation

Product:

Remarks : No data available

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Components:

acetone:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation

2-butoxyethanol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation
GLP : yes

Respiratory or skin sensitisation

Product:

Remarks : No data available

Components:

Reaction mass of ethyl benzene and xylene:

Test Type : Mouse Local Lymph Node assay (LLNA)
Exposure routes : Dermal
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

2-butoxyethanol:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : yes

Germ cell mutagenicity

Components:

Hydrocarbons, C4; Petroleum gas:

Germ cell mutagenicity- Assessment : Classified based on 1,3-butadiene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note K)

Carcinogenicity

Components:

Hydrocarbons, C4; Petroleum gas:

Carcinogenicity - Assessment : Classified based on 1,3-butadiene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note K)

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Reproductive toxicity

Components:

cobalt bis(2-ethylhexanoate):

Reproductive toxicity - Assessment : May damage the unborn child.

Repeated dose toxicity

Product:

Remarks : No data available

Aspiration toxicity

Components:

acetone:

No aspiration toxicity classification

Reaction mass of ethyl benzene and xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

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Components:

Xylene, mixture of isomers:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l
Exposure time: 24 h
Test Type: Immobilization
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l
Exposure time: 56 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,17 mg/l
Exposure time: 7 d
Species: Daphnia sp. (water flea)

NOEC: 0,96 mg/l
Exposure time: 7 d
Species: Daphnia sp. (water flea)

Reaction mass of ethyl benzene and xylene:

Toxicity to fish : LC50 (Fish): 2,6 mg/l
End point: mortality
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: Immobilization

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : > 1,3 mg/l
Exposure time: 56 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l
End point: Reproduction
Exposure time: 7 d

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Species: Daphnia sp. (water flea)

2-butoxyethanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.474 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.550 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.840 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

pyrithione zinc:

M-Factor (Acute aquatic toxicity) : 1.000

1.000

M-Factor (Chronic aquatic toxicity) : 10

10

octhilinone (ISO):

M-Factor (Acute aquatic toxicity) : 100

100

M-Factor (Chronic aquatic toxicity) : 100

100

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

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Components:

Xylene, mixture of isomers:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

Reaction mass of ethyl benzene and xylene:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

2-butoxyethanol:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Xylene, mixture of isomers:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Exposure time: 56 d
Bioconcentration factor (BCF): 25,9
GLP: no

Partition coefficient: n-octanol/water : Pow: 3,2 (20 °C)
pH: 7

2-butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0,81 (25 °C)
pH: 7

12.4 Mobility in soil

No data available

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.

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12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.
Do not dispose of with domestic refuse.
Container hazardous when empty.
The product should not be allowed to enter drains, water courses or the soil.
Can be incinerated, when in compliance with local regulations.

Contaminated packaging : Offer empty spray cans to an established disposal company.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN : UN 1950
IMDG : UN 1950
IATA : UN 1950
Not permitted for transport

14.2 UN proper shipping name

ADR/RID/ADN : AEROSOLS
IMDG : AEROSOLS
IATA : AEROSOLS, FLAMMABLE
Not permitted for transport

14.3 Transport hazard class(es)

ADR/RID/ADN : 2.1
IMDG : 2.1
IATA (Cargo) : 2.1
IATA (Passenger) : Not permitted for transport

14.4 Packing group

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ADR/RID/ADN

Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : D

IMDG

Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U
Remarks : IMDG Code segregation group - none

IATA (Cargo) : Not permitted for transport

IATA (Passenger) : Not permitted for transport

14.5 Environmental hazards

ADR/RID/ADN

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

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 Maritime transport in bulk according to IMO instruments

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable
Regulation (EU) 2019/1148 on the marketing and use of

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explosives precursors

Acquisition, introduction, possession or use of the explosive precursor by the general public is subject to reporting obligations.

acetone (ANNEX II)

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

acetone (ANNEX II)

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors

: Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P3a

FLAMMABLE AEROSOLS

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH)

P3a

FLAMMABLE AEROSOLS

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H220	: Extremely flammable gas.
H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H280	: Contains gas under pressure; may explode if heated.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
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.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer if inhaled.
H360D	: May damage the unborn child.

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H372	:	Causes damage to organs through prolonged or repeated exposure.
H373	:	May cause damage to organs through prolonged or repeated exposure.
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.
EUH066	:	Repeated exposure may cause skin dryness or cracking.
EUH071	:	Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Gas	:	Flammable gases
Flam. Liq.	:	Flammable liquids
Press. Gas	:	Gases under pressure
Repr.	:	Reproductive toxicity
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
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
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
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; AIIIC - 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 - 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;

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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Provide adequate information, instruction and training for operators.

Classification of the mixture:

Aerosol 1	H222, H229
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 3	H412

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

GB / EN