

Version 5.0 SDB_GB

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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

Use of the	: Spray insulating varnish
Substance/Mixture	

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	-	msds.elantas.europe@altana.com

1.4 Emergency telephone number

+39 0736 3081 (8-17 h)

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.
Serious eye damage , Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure , Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure , Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Label elements	

Labelling (REGULATION (EC) No 1272/2008)

2.2



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Hazard pictograms			!>
Signal word	: Danger		
Hazard statements	: H222 H229 H315 H318 H336 H373	Extremely flammable a Pressurised container: Causes skin irritation. Causes serious eye da May cause drowsiness May cause damage to prolonged or repeated	May burst if heated. mage. or dizziness. organs through
Precautionary statements	: Prevention: P210 P211 P251 P260	Keep away from heat, open flames and other smoking. Do not spray on an ope ignition source. Do not pierce or burn, Do not breathe dust/ fu	ignition sources. No en flame or other even after use.
	P280 Response: P305 + P351 + I Storage:	with water for several r contact lenses, if prese Continue rinsing. Imme POISON CENTER/doc	S: Rinse cautiously ninutes. Remove ent and easy to do. ediately call a ttor.
	P410 + P412	Protect from sunlight. I temperatures exceeding	

Hazardous components which must be listed on the label: acetone

Xylene, mixture of isomers

iso-butanol

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. Warning! Container under pressure.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Polymer with pigment affinic groups



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Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
acetone	67-64-1 200-662-2 01-2119471330-49	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 12,5 - < 20
Xylene, mixture of isomers	1330-20-7 215-535-7 01-2119488216-32	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 10 - < 12,5
hydrocarbons, C3-4	68476-40-4 270-681-9	Flam. Gas1; H220 Press. GasH280	>= 10 - < 12,5
butanone	78-93-3 201-159-0 01-2119457290-43	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 3 - < 5
iso-butanol	78-83-1 201-148-0 01-2119484609-23	Flam. Liq.3; H226 STOT SE3; H335, H336 Skin Irrit.2; H315 Eye Dam.1; H318	>= 1 - < 3
cyclohexanone	108-94-1 203-631-1 01-2119453616-35	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Acute Tox.4; H302 2; H315 Eye Dam.1; H318	>= 1 - < 3
ethylbenzene	100-41-4 202-849-4 /	Flam. Liq.2; H225 Acute Tox.4; H332 STOT RE2; H373 Asp. Tox.1; H304	>= 1 - < 3
Substances with a workplace ex			
dimethyl ether	115-10-6 204-065-8	Flam. Gas1; H220 Press. Gas	>= 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. Consult a physician. Do not leave the victim unattended.



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Protection of first-aiders	: If potential for exposure exists ref personal protective equipment. Avoid inhalation, ingestion and co	
If inhaled	: Move to fresh air. If symptoms persist, call a physici Oxygen or artificial respiration if n If unconscious, place in recovery advice.	eeded.
In case of skin contact	 Take off contaminated clothing ar Wash off immediately with plenty minutes. Use a mild soap if available. Wash contaminated clothing befo If skin irritation persists, call a phy 	of water for at least 15 re re-use.
In case of eye contact	: Rinse thoroughly with plenty of wa and consult a physician. Keep eye wide open while rinsing	
If swallowed	: Call a physician immediately. Gently wipe or rinse the inside of Do not induce vomiting without m Never give anything by mouth to a	edical advice.
I.2 Most important symptoms a	nd effects, both acute and delayed	
Symptoms	: Nausea Central nervous system depression Drowsiness	on
1.2 Indication of any immodiate	medical attention and special treatm	ant nooded
Treatment	: The first aid procedure should be with the doctor responsible for inc	established in consultation
SECTION 5: Firefighting mea	sures	
5.1 Extinguishing media		
Suitable extinguishing media	: Use water spray, alcohol-resistan carbon dioxide. Keep containers and surrounding	-
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during firefighting	: The pressure in sealed containers influence of heat. Warning: water promotes the spre Burning produces irritant fumes	

health.

Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to



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5.3 Advice for firefighters		
Special protective equipment for firefighters	: Wear self-contained breathing appara necessary. Use personal protective e	
Further information	: Cool containers/tanks with water spra Keep away from heat and sources of Prevent fire extinguishing water from water or the ground water system.	ignition.

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 co	ntainment 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	J	
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 from the work area. Keep working cl	
7.2 Conditions for safe storage, in	ncluding any incompatibilities	
Requirements for storage areas and containers	: Keep containers tightly closed in a d ventilated place.	ry, cool and well-
7.3 Specific end use(s)		
Specific use(s)	: Consult the technical guidelines for t substance/mixture.	he use of this

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/m3	2000/39/EC
Further information	Indicative			
		TWA	400 ppm 766 mg/m3	GB EH40
		STEL	500 ppm 958 mg/m3	GB EH40
acetone	67-64-1	TWA	500 ppm 1.210 mg/m3	2000/39/EC
Further information	Indicative			
		TWA	500 ppm 1.210 mg/m3	GB EH40
		STEL	1.500 ppm 3.620 mg/m3	GB EH40
Xylene, mixture of isomers	1330-20-7	TWA	50 ppm 220 mg/m3	GB EH40
Further information			e assigned substances are t sorption will lead to systemic	
		STEL	100 ppm 441 mg/m3	GB EH40
Further information			e assigned substances are t sorption will lead to systemic	
		TWA	50 ppm 221 mg/m3	2000/39/EC
Further information	Identifies the		ant uptake through the skin, I	
		STEL	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
butanone	78-93-3	TWA	200 ppm 600 mg/m3	2000/39/EC
Further information	Indicative			
		STEL	300 ppm 900 mg/m3	2000/39/EC
		0 / 01		



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Further information	Indicative			
		TWA	200 ppm 600 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for whi there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	300 ppm 899 mg/m3	GB EH40
Further information			e assigned substances are t sorption will lead to systemic	
iso-butanol	78-83-1	TWA	50 ppm 154 mg/m3	GB EH40
		STEL	75 ppm 231 mg/m3	GB EH40
cyclohexanone	108-94-1	TWA	10 ppm 40,8 mg/m3	2000/39/EC
Further information	Identifies the		ant uptake through the skin, I	
		STEL	20 ppm 81,6 mg/m3	2000/39/EC
Further information	Identifies the	oossibility of signification	ant uptake through the skin, I	ndicative
		TWA	10 ppm	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	20 ppm	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm 441 mg/m3	GB EH40
Further information			e assigned substances are t sorption will lead to systemic	
		STEL	125 ppm 552 mg/m3	GB EH40
Further information			e assigned substances are t sorption will lead to systemic	

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Xylene	1330-20-7	methyl hippuric acid: 650 mmol/mol creatinine (Urine)	After shift	GB EH40 BAT
Methylethyl ketone	78-93-3	butan-2-one: 70 micromol per litre (Urine)	After shift	GB EH40 BAT
Cyclohexanone	108-94-1	cyclohexanol: 2 mmol/mol creatinine (Urine)	After shift	GB EH40 BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:



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acetone	Value: 180 mg/kg End Use: Workers Exposure routes: Inh Potential health effect Value: 77 mg/m3 End Use: Consumers Exposure routes: Inh Potential health effect Value: 174 mg/m3 End Use: Consumers Exposure routes: Inh Potential health effect Value: 174 mg/m3 End Use: Consumers Exposure routes: Ski	ets: Acute local effect alation ets: Long-term expose in contact ets: Long-term expose s in contact ets: Long-term expose s alation ets: Long-term expose alation ets: Acute effects, S in contact ets: Acute effects, S in contact ets: Long-term expose alation ets: Long-term expose s alation ets: Short-term exposes s alation ets: Short-term exposes s alation ets: Short-term exposes s alation ets: Short-term exposes s alation	sure sure sure sure sure hort-term exposure, sure, Systemic effects sure, Systemic effects



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	Potential health effects: Long-term	exposure, Systemic effects
	Value: 1,6 mg/kg	
	End Use: Consumers	
	Exposure routes: Inhalation Potential health effects: Long-term	ovposuro Systemic offects
	Value: 14,8 mg/m3	rexposure, Systemic enects
butanone	: End Use: Workers	
	Exposure routes: Skin contact	
	Potential health effects: Long-term	systemic effects
	Value: 1161 mg/kg	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term	systemic effects
	Value: 600 mg/m3 End Use: Consumers	
	End Ose. Consumers Exposure routes: Skin contact	
	Potential health effects: Long-term	systemic effects
	Value: 412 mg/kg	
	End Use: Consumers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term	a systemic effects
	Value: 106 mg/m3	
	End Use: Consumers	
	Exposure routes: Ingestion	systemic offects
	Potential health effects: Long-term Value: 31 mg/kg	r systemic enects
iso-butanol	: End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term	local effects
	Value: 310 mg/m3	
	End Use: Consumers	
	Exposure routes: Ingestion	
	Potential health effects: Long-term	systemic effects
	Value: 25 mg/kg End Use: Consumers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term	local effects
	Value: 55 mg/m3	
cyclohexanone	: End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Short-term	n exposure, Systemic effects
	Value: 80 mg/m3	
	End Use: Workers Exposure routes: Skin contact	
	Potential health effects: Short-term	exposure Systemic effects
	Value: 4 mg/kg	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Short-term	n exposure, Local effects
	Value: 80 mg/m3	
	End Use: Workers	
	Exposure routes: Skin contact	ovposuro Systemia offacta
	Potential health effects: Long-term Value: 4 mg/kg	i exposure, systemic enects
	End Use: Workers	
	Exposure routes: Inhalation	



		Electrical Insulation
LMOTHERM ® VA39	SPRAY	
ersion 5.0 SDB_GB	Revision Date 08.11.2016	Print Date 09.11.201
ersion 5.0 SDB_GB	Potential health effects: Long-term Value: 40 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term Value: 40 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Short-term Value: 1 mg/kg End Use: Consumers Exposure routes: Inhalation Potential health effects: Short-term Value: 20 mg/m3 End Use: Consumers Exposure routes: Ingestion Potential health effects: Short-term Value: 1,5 mg/kg End Use: Consumers Exposure routes: Inhalation Potential health effects: Short-term Value: 1,5 mg/kg End Use: Consumers Exposure routes: Short-term Value: 40 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term Value: 1 mg/kg End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term Value: 10 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term Value: 10 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term Value: 10 mg/m3 End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term Value: 10 mg/m3	n exposure, Local effects m exposure, Systemic effects m exposure, Systemic effects m exposure, Systemic effects m exposure, Local effects n exposure, Systemic effects n exposure, Systemic effects
	End Use: Consumers Exposure routes: Inhalation	
	Potential health effects: Local effe Value: 20 mg/m3	ects
Predicted No Effect Conce	ntration (PNEC) according to Regulation	on (FC) No. 1907/2006:
acetone	: Fresh water Value: 10,6 mg/l Marine water Value: 1,06 mg/l Fresh water sediment Value: 30,4 mg/kg Marine sediment Value: 3,04 mg/kg Soil Value: 29,5 mg/kg Intermittent releases Value: 21 mg/l Sewage treatment plant	
Xylene, mixture of isomers	Value: 19,5 mg/l : Fresh water	
5	Value: 0,327 mg/l	



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	Marine water Value: 0,327 mg/l Fresh water sediment Value: 12,46 mg/kg Marine sediment Value: 12,46 mg/kg Soil Value: 2,31 mg/kg Sewage treatment plant Value: 6,58 mg/l Intermittent releases	
butanone	Value: 0,327 mg/l : Fresh water sediment Value: 284,74 mg/kg Marine sediment Value: 2847 mg/kg Soil Value: 22,5 mg/kg Oral Value: 1000 mg/kg Fresh water Value: 55,8 mg/l Intermittent releases Value: 55,8 mg/l Sewage treatment plant Value: 709 mg/l	
iso-butanol	: Fresh water Value: 0,4 mg/l Marine water Value: 0,04 mg/l Fresh water sediment Value: 1,52 mg/kg Marine sediment Value: 0,152 mg/kg Soil Value: 0,0699 mg/kg Sewage treatment plant Value: 10 mg/l Intermittent releases Value: 11 mg/l	
cyclohexanone	 Fresh water Value: 0,0329 mg/l Marine water Value: 0,0329 mg/l Fresh water sediment Value: 0,0951 mg/kg Marine sediment Value: 0,0512 mg/kg Soil Value: 0,0143 mg/kg Sewage treatment plant Value: 10 mg/l Intermittent releases Value: 1 mg/l 	



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8.2 Exposure controls

Personal protective equipm	ent
Eye protection	: Safety glasses with side-shields conforming to EN166
Hand protection Material	: Solvent-resistant gloves (butyl-rubber)
Respiratory protection	: Respirator with a vapour filter (EN 141)
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

Appearance	: aerosol
Colour	: grey
Odour	: solvent-like
рН	: Not applicable
Melting point/freezing point	: lower -15 °C
Boiling point/boiling range	: <35 °C
Flash point	: -1 °C
Flammability (solid, gas)	: Extremely flammable aerosol.
Flammability (solid, gas) Vapour pressure	Extremely flammable aerosol.No data available
	-
Vapour pressure	: No data available
Vapour pressure Relative vapour density	No data availablelower 1(Air = 1.0)
Vapour pressure Relative vapour density	No data availablelower 1(Air = 1.0)

9.2 Other information

No data available

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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

Hazardous decomposition	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of
products		nitrogen (NOx), dense black smoke.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute	toxicity

Product:		
Acute oral toxicity		cute toxicity estimate : > 2.000 mg/kg lethod: Calculation method
	R	emarks: see also section 2.1
Acute inhalation toxicity	E T	cute toxicity estimate : > 20 mg/l xposure time: 4 h est atmosphere: vapour lethod: Calculation method
	R	emarks: see also section 2.1
Acute dermal toxicity		cute toxicity estimate : > 2.000 mg/kg lethod: Calculation method
	R	emarks: see also section 2.1
Acute toxicity (other routes of administration)	: R	emarks: see also section 2.1



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Xylene, mixture of isomers: Acute oral toxicity: LD50 (Rat, male): 3.523 mg/kg Method: Directive 67/548/EEC, Annex V, B.1.butanone: Acute oral toxicity: LD50 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 423 GLP: yesiso-butanol: Acute oral toxicity: LD50 (Rat, male): > 2.830 mg/kg Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity: LD50 (Rat, male): > 2.000 mg/kg Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity: LD50 (Rabbit, male): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yescyclohexanone: Acute oral toxicity: LD50 (Rat): 1.890 mg/kgAcute inhalation toxicity: LC50 (Rat, male and female): > 6,2 mg/l Exposure time: 4 h Test atmosphere: vapourSkin corrosion/irritation: LO50 (Rat)	Components:		
Acute oral toxicity: LD50 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 423 GLP: yesiso-butanol: Acute oral toxicity: LD50 (Rat, male): > 2.830 mg/kg Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity: LD50 (Rabbit, male): > 2.000 mg/kg Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity: LD50 (Rabbit, male): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yescyclohexanone: Acute oral toxicity: LD50 (Rat): 1.890 mg/kgAcute inhalation toxicity: LC50 (Rat, male and female): > 6,2 mg/l Exposure time: 4 h Test atmosphere: vapour		:	
Acute oral toxicity: LD50 (Rat, male): > 2.830 mg/kg Method: OECD Test Guideline 401 GLP: yesAcute dermal toxicity: LD50 (Rabbit, male): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yescyclohexanone: Acute oral toxicity: LD50 (Rat): 1.890 mg/kgAcute inhalation toxicity: LC50 (Rat, male and female): > 6,2 mg/l Exposure time: 4 h Test atmosphere: vapour		:	Method: OECD Test Guideline 423
Method: OECD Test Guideline 402 GLP: yes cyclohexanone: Acute oral toxicity : LD50 (Rat): 1.890 mg/kg Acute inhalation toxicity : LC50 (Rat, male and female): > 6,2 mg/l Exposure time: 4 h Test atmosphere: vapour		:	Method: OECD Test Guideline 401
Acute oral toxicity: LD50 (Rat): 1.890 mg/kgAcute inhalation toxicity: LC50 (Rat, male and female): > 6,2 mg/l Exposure time: 4 h Test atmosphere: vapour	Acute dermal toxicity	:	Method: OECD Test Guideline 402
Acute inhalation toxicity : LC50 (Rat, male and female): > 6,2 mg/l Exposure time: 4 h Test atmosphere: vapour			
Exposure time: 4 h Test atmosphere: vapour	Acute oral toxicity	:	LD50 (Rat): 1.890 mg/kg
Skin corrosion/irritation	Acute inhalation toxicity	:	Exposure time: 4 h
	Skin corrosion/irritation		

Product:

Remarks: No data available

Components:

butanone: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes

iso-butanol: Species: Rabbit Result: Skin irritation

cyclohexanone:

Species: Rabbit Method: OECD Test Guideline 404 Result: Skin irritation GLP: yes

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

iso-butanol:

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

cyclohexanone:

Species: Rabbit Method: OECD Test Guideline 405 Result: Risk of serious damage to eyes. GLP: yes

Respiratory or skin sensitisation

Product: Remarks: No data available

Components:

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

iso-butanol:

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

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

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Aspiration toxicity

Components:

acetone: No aspiration toxicity classification

iso-butanol:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
<u>Components:</u> Xylene, mixture of isomers: Toxicity to algae	:	EC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
butanone:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 2.993 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 308 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	ErC50 (Selenastrum capricornutum (green algae)): 2.029 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

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iso-butanol:		
Toxicity to fish	: LC50 (Pimephales promelas (fathe Exposure time: 96 h	ad minnow)): 1.430 mg/l
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia pulex (Water flea)): 1.100 mg/l Exposure time: 48 h Test Type: static test	
Toxicity to algae	 ErC50 (Pseudokirchneriella subcap mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes 	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 20 mg/l Exposure time: 21 d End point: Reproduction Species: Daphnia magna (Water fle Test Type: semi-static test	ea)
cyclohexanone: Toxicity to algae	: ErC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	
Persistence and degradabilit	у	
Persistence and degradabilit <u>Product:</u>	у	
-	y : Remarks: No data available	
Product:		
Product: Biodegradability		
Product: Biodegradability Components:		F
Product: Biodegradability Components: Xylene, mixture of isomers:	 Remarks: No data available Test Type: aerobic Result: Readily biodegradable. Method: OECD Test Guideline 301 	F
Product: Biodegradability Components: Xylene, mixture of isomers: Biodegradability	 Remarks: No data available Test Type: aerobic Result: Readily biodegradable. Method: OECD Test Guideline 301 	
Product: Biodegradability Components: Xylene, mixture of isomers: Biodegradability butanone:	 Remarks: No data available Test Type: aerobic Result: Readily biodegradable. Method: OECD Test Guideline 301 GLP: yes Test Type: aerobic Result: Readily biodegradable. Method: OECD Test Guideline 301 	

12.3 Bioaccumulative potential

Product:



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Bioaccumulation	: Remarks: No data available	
Components:		
butanone:		
Partition coefficient: n- octanol/water	: log Pow: 0,3 (40 °C) pH: 7 Method: OECD Test Guideline 117 GLP: yes	
iso-butanol:		
Partition coefficient: n- octanol/water	: log Pow: 1 Method: OECD Test Guideline 117 GLP: yes	
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB	assessment	
Product:		
Assessment	: This substance/mixture contains no to be either persistent, bioaccumulat very persistent and very bioaccumula 0.1% or higher	tive and toxic (PBT), or
12.6 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

ADR/RID/ADN	:	UN 1950
IMDG	:	UN 1950
ΙΑΤΑ	:	UN 1950
14.2 UN proper shipping name		



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ADR/RID/ADN	: AEROSOLS	
IMDG	: AEROSOLS	
ΙΑΤΑ	: Aerosols, flammable	
14.3 Transport hazard class(es)		
ADR/RID/ADN	: 2.1	
IMDG	: 2.1	
ΙΑΤΑ	: 2.1	
14.4 Packing group		
ADR/RID/ADN Packing group Hazard Identification Number Labels	 Not assigned by regulation 23 2.1 	
IMDG Packing group Labels EmS Code Remarks	 Not assigned by regulation 2.1 F-D, S-U IMDG Code segregation group - none 	
IATA Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) Packing group Labels	 203 203 Not assigned by regulation 2.1 	
14.5 Environmental hazards		
ADR/RID/ADN Environmentally hazardous	: no	
IMDG Marine pollutant	: no	
I4.6 Special precautions for user Not applicable		
14.7 Transport in bulk according Not applicable for product as s	to Annex II of MARPOL 73/78 and the IBC C upplied.	Code

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on	: dimethyl ether
the market and use of certain dangerous substances,	Xylene, mixture of isomers
preparations and articles (Annex XVII)	hydrocarbons, C3-4



Version 5.0 SDB_GB Revision Date 08.11.2016 Print Date 09.11.2016 butanone iso-butanol REACH - Candidate List of Substances of Very High : This product does not contain Concern for Authorisation (Article 59). substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). REACH - List of substances subject to authorisation : Not applicable (Annex XIV) Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Quantity 1 Quantity 2 P3a FLAMMABLE AEROSOLS 150 t 500 t

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H220 H225 H226 H302 H304 H312 H315 H318 H319 H332 H335 H336 H373		Extremely flammable gas. Highly flammable liquid and vapour. Flammable liquid and vapour. Contains gas under pressure; may explode if heated. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Eye Irrit. Flam. Gas Flam. Liq. Press. Gas Skin Irrit.		Acute toxicity Aspiration hazard Serious eye damage Eye irritation Flammable gases Flammable liquids Gases under pressure Skin irritation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure
Further information Training advice	:	Provide adequate information, instruction and training for operators.



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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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.