

Version 6.0 SDB_GB

Revision Date 08.11.2016

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

1.1 Product identifier

Trade name

: ELMOTHERM ® 009-0008 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 - 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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms			!
Signal word	Danger		
Hazard statements	: H222 H229 H315 H318 H335 H336 H373	Extremely flammable ae Pressurised container: M Causes skin irritation. Causes serious eye dan May cause respiratory ir May cause drowsiness of May cause damage to o prolonged or repeated e	<i>l</i> ay burst if heated. nage. ritation. or dizziness. rgans through
Precautionary statements	Prevention: P210	Keep away from heat, h open flames and other ig smoking.	
	P211	Do not spray on an oper ignition source.	n flame or other
	P251 P260	Do not pierce or burn, e Do not breathe dust/ fun vapours/ spray.	
	P280 Response:	Wear eye protection/ fac	
	P305 + P351 + F	2338 + P310 IF IN EYES with water for several m contact lenses, if presen Continue rinsing. Immed POISON CENTER/doctor	it and easy to do. diately call a
	Storage: P410 + P412	Protect from sunlight. Do temperatures exceeding	

Hazardous components which must be listed on the label: Xylene, mixture of isomers

iso-butanol

Additional Labelling:

EUH208

Contains: 2-butanone oxime. May produce an allergic reaction.

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



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Chemical nature : Alkyd Resin Solution

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
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	>= 20 - < 25
acetone	67-64-1 200-662-2 01-2119471330-49	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 12,5 - < 20
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	>= 1 - < 3
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
2-butanone oxime	96-29-7 202-496-6 01-2119539477-28	Carc.2; H351 Acute Tox.4; H312 Eye Dam.1; H318 Skin Sens.1; H317	>= 0,1 - < 0,25
Substances with a workplace exp			
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 refer t personal protective equipment. Avoid inhalation, ingestion and conta	
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 s Wash off immediately with plenty of minutes. Use a mild soap if available. Wash contaminated clothing before n If skin irritation persists, call a physic 	water for at least 15 re-use.
In case of eye contact	: Rinse thoroughly with plenty of water and consult a physician. Keep eye wide open while rinsing.	r for at least 15 minutes
If swallowed	: Call a physician immediately. Gently wipe or rinse the inside of the Do not induce vomiting without medi Never give anything by mouth to an	cal advice.
2 Most important symptoms an	d effects both acute and delayed	
. 2 Most important symptoms an Symptoms	 d effects, both acute and delayed Nausea Central nervous system depression Drowsiness 	
Symptoms	: Nausea Central nervous system depression Drowsiness	t needed
Symptoms	: Nausea Central nervous system depression	ablished in consultation
Symptoms .3 Indication of any immediate n Treatment	 Nausea Central nervous system depression Drowsiness nedical attention and special treatmen The first aid procedure should be est with the doctor responsible for indust 	ablished in consultation
Symptoms	 Nausea Central nervous system depression Drowsiness nedical attention and special treatmen The first aid procedure should be est with the doctor responsible for indust 	ablished in consultation
Symptoms 3.3 Indication of any immediate n Treatment SECTION 5: Firefighting meas	 Nausea Central nervous system depression Drowsiness nedical attention and special treatmen The first aid procedure should be est with the doctor responsible for indust 	ablished in consultation trial medicine.
Symptoms .3 Indication of any immediate m Treatment SECTION 5: Firefighting meas .1 Extinguishing media	 Nausea Central nervous system depression Drowsiness nedical attention and special treatmen The first aid procedure should be est with the doctor responsible for indust sures Use water spray, alcohol-resistant fo carbon dioxide. Keep containers and surroundings compared 	ablished in consultation trial medicine.



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5.3 Advice for firefighters

Special protective equipment for firefighters	: 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

••••••••••••••••••••••••••••••••••••••	and energy brees and en
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 cor	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).

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	: Use only in area provided with appropriate exhaust ventilation.

Sweep up and shovel into suitable containers for disposal.

Clean contaminated surface thoroughly.



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fire and explosion		
Hygiene measures	: Store personal protection equipment in a c from the work area. Keep working clothes	
7.2 Conditions for safe storage, ir	ncluding any incompatibilities	
Requirements for storage areas and containers	: Keep containers tightly closed in a dry, coor ventilated place.	ol and well-
7.3 Specific end use(s)		
Specific use(s)	: Consult the technical guidelines for the use substance/mixture.	∋ 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
Xylene, mixture of isomers	1330-20-7	TWA	50 ppm 220 mg/m3	GB EH40
Further information		cerns that dermal ab	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	possibility of signification	ant uptake through the skin,	Indicative
		STEL	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin,	Indicative
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
butanone	78-93-3	TWA	200 ppm 600 mg/m3	2000/39/EC
Further information	Indicative			



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		STEL	300 ppm 900 mg/m3	2000/39/EC
Further information	Indicative		900 mg/m3	
	maloativo	TWA	200 ppm 600 mg/m3	GB EH40
Further information			e assigned substances are t sorption will lead to systemic	
		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	possibility of significa	ant uptake through the skin, I	ndicative
		STEL	20 ppm 81,6 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin, I	ndicative
		TWA	10 ppm	GB EH40
Further information			e assigned substances are t sorption will lead to systemic	
		STEL	20 ppm	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:

Xylene, mixture of isomers: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute effects, Short-term exposure,
Systemic effects
Value: 289 mg/m3
End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute effects, Short-term exposure,
Local effects
Value: 289 mg/m3
End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term exposure, Systemic effects7/20



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	Value: 180 mg/kg	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-terr	n exposure, Systemic effects
	Value: 77 mg/m3	
	End Use: Consumers	
	Exposure routes: Inhalation Potential health effects: Short-ter	maxpacura Systemia offacta
	Value: 174 mg/m3	in exposure, systemic enects
	End Use: Consumers	
	Exposure routes: Inhalation	
	Potential health effects: Short-ter	m exposure. Local effects
	Value: 174 mg/m3	
	End Use: Consumers	
	Exposure routes: Skin contact	
	Potential health effects: Long-terr	n exposure, Systemic effects
	Value: 108 mg/kg	
	End Use: Consumers	
	Exposure routes: Ingestion	
	Potential health effects: Long-terr	n exposure, Systemic effects
	Value: 1,6 mg/kg	
	End Use: Consumers	
	Exposure routes: Inhalation Potential health effects: Long-terr	n exposure Systemic effects
	Value: 14,8 mg/m3	n'exposure, bysternic enects
acetone	: End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Acute loc	al effects
	Value: 2420 mg/m3	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-terr	n exposure
	Value: 1210 mg/m3	
	End Use: Workers	
	Exposure routes: Skin contact	
	Potential health effects: Long-terr	n exposure
	Value: 186 mg/kg End Use: Consumers	
	Exposure routes: Skin contact	
	Potential health effects: Long-terr	n exposure
	Value: 62 mg/kg	il expectite
	End Use: Consumers	
	Exposure routes: Inhalation	
	Potential health effects: Long-terr	n exposure
	Value: 200 mg/m3	
	End Use: Consumers	
	Exposure routes: Ingestion	
	Potential health effects: Long-terr	n exposure
	Value: 62 mg/kg	
butanone	: End Use: Workers	
	Exposure routes: Skin contact	n avatamia offacta
	Potential health effects: Long-terr Value: 1161 mg/kg	II SYSTEMIC ENECTS
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-terr	n systemic effects
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	Value: 600 mg/m3	
	End Use: Consumers	
	Exposure routes: Skin contact	
	Potential health effects: Long-ter	m systemic effects
	Value: 412 mg/kg	
	End Use: Consumers	
	Exposure routes: Inhalation	and the state of the state
	Potential health effects: Long-ter	m systemic effects
	Value: 106 mg/m3 End Use: Consumers	
	Exposure routes: Ingestion	
	Potential health effects: Long-ter	m systemic effects
	Value: 31 mg/kg	
iso-butanol	: End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-ter	m local effects
	Value: 310 mg/m3	
	End Use: Consumers	
	Exposure routes: Ingestion	
	Potential health effects: Long-ter	m systemic effects
	Value: 25 mg/kg	
	End Use: Consumers	
	Exposure routes: Inhalation	m local officiate
	Potential health effects: Long-ter Value: 55 mg/m3	In local effects
cyclohexanone	: End Use: Workers	
cyclonexanone	Exposure routes: Inhalation	
	Potential health effects: Short-te	rm exposure. Systemic effects
	Value: 80 mg/m3	
	End Use: Workers	
	Exposure routes: Skin contact	
	Potential health effects: Short-te	rm exposure, Systemic effects
	Value: 4 mg/kg	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Short-te	rm exposure, Local effects
	Value: 80 mg/m3	
	End Use: Workers	
	Exposure routes: Skin contact	m avpasura Sustamia affasta
	Potential health effects: Long-ter Value: 4 mg/kg	in exposure, systemic enects
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-ter	m exposure, Systemic effects
	Value: 40 mg/m3	
	End Use: Workers	
	Exposure routes: Inhalation	
	Potential health effects: Long-ter	m exposure, Local effects
	Value: 40 mg/m3	
	End Use: Consumers	
	Exposure routes: Skin contact	
	Potential health effects: Short-te	rm exposure, Systemic effects
	Value: 1 mg/kg	
	End Use: Consumers Exposure routes: Inhalation	
	Potential health effects: Short-te	rm exposure Systemic effecte
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	Value: 20 mg/m3	
	End Use: Consumers	
	Exposure routes: Ingestion	
	Potential health effects: Short-term	exposure, Systemic effects
	Value: 1,5 mg/kg	
	End Use: Consumers	
	Exposure routes: Inhalation	avpagura Lagal offacta
	Potential health effects: Short-term Value: 40 mg/m3	exposure, Local ellects
	End Use: Consumers	
	Exposure routes: Skin contact	
	Potential health effects: Long-term	exposure. Systemic effects
	Value: 1 mg/kg	
	End Use: Consumers	
	Exposure routes: Inhalation	
	Potential health effects: Long-term	exposure, Systemic effects
	Value: 10 mg/m3	
	End Use: Consumers	
	Exposure routes: Ingestion	
	Potential health effects: Long-term	exposure, Systemic effects
	Value: 1,5 mg/kg	
	End Use: Consumers Exposure routes: Inhalation	
	Potential health effects: Local effect	ts
	Value: 20 mg/m3	
Xylene, mixture of isomers	ration (PNEC) according to Regulation : Fresh water	
	Value: 0,327 mg/l	
	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	
	Value: 0,327 mg/l	
acetone	: Fresh water	
	Value: 10,6 mg/l	
	Marine water	
	Value: 1,06 mg/l	
	Value: 1,06 mg/l Fresh water sediment	
	Value: 1,06 mg/l Fresh water sediment Value: 30,4 mg/kg	
	Value: 1,06 mg/l Fresh water sediment Value: 30,4 mg/kg Marine sediment	
	Value: 1,06 mg/l Fresh water sediment Value: 30,4 mg/kg	
	Value: 1,06 mg/l Fresh water sediment Value: 30,4 mg/kg Marine sediment Value: 3,04 mg/kg	
	Value: 1,06 mg/l Fresh water sediment Value: 30,4 mg/kg Marine sediment Value: 3,04 mg/kg Soil	
	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	
	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	
butanone	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	



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	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	
iso-butanol	Value: 709 mg/l : Fresh water	
150-DULATION	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	
8.2 Exposure controls		
Personal protective equipm	ent	

Personal protective equipme	nt	
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



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Colour	: clear
Odour	: characteristic
рН	: Not applicable
Melting point/freezing point	: lower -15 °C
Initial boiling point	: 35 °C
Flash point	: -1 °C
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density	: lower 1(Air = 1.0)
Density	: 0,769 g/cm3
Bulk density	: Not applicable
Partition coefficient: n- octanol/water	: No data available

9.2 Other information

No data available

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.	
nazarabab reactione	•		

10.4 Conditions to avoid

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

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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 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, 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: yes
iso-butanol: Acute oral toxicity	:	LD50 (Rat, male): > 2.830 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute dermal toxicity	:	LD50 (Rabbit, male): > 2.000 mg/kg
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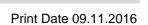




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Electrical Insulation

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

Aspiration toxicity

Components:

acetone: No aspiration toxicity classification

iso-butanol: No aspiration toxicity classification

Further information

Product:

Remarks: No data available

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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 	
iso-butanol:		
Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 1.430 mg/l Exposure time: 96 h	
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 subcapitata (green algae)): 1.799 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes 	
Toxicity to daphnia and other aquatic invertebrates	: NOEC: 20 mg/l Exposure time: 21 d	

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ELMOTHERM ® 009-0008 SPRAY Version 6.0 SDB GB Revision Date 08.11.2016 Print Date 09.11.2016 (Chronic toxicity) End point: Reproduction Species: Daphnia magna (Water flea) Test Type: semi-static test cyclohexanone: : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Toxicity to algae Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes 12.2 Persistence and degradability Product: Biodegradability : Remarks: No data available **Components:** Xylene, mixture of isomers: Biodegradability : Test Type: aerobic Result: Readily biodegradable. Method: OECD Test Guideline 301F GLP: yes butanone: : Test Type: aerobic Biodegradability Result: Readily biodegradable. Method: OECD Test Guideline 301D GLP: yes iso-butanol: Biodegradability : Result: Readily biodegradable. Method: OECD Test Guideline 301D 12.3 Bioaccumulative potential **Product:** : Remarks: No data available Bioaccumulation Components: butanone: Partition coefficient: n-: log Pow: 0,3 (40 °C) octanol/water pH: 7 Method: OECD Test Guideline 117 GLP: yes iso-butanol: Partition coefficient: n-: log Pow: 1 octanol/water Method: OECD Test Guideline 117 GLP: yes

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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..

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	9
ADR/RID/ADN	: AEROSOLS
IMDG	: AEROSOLS
ΙΑΤΑ	: Aerosols, flammable
14.3 Transport hazard class(e	s)
ADR/RID/ADN	: 2.1
IMDG	: 2.1
ΙΑΤΑ	: 2.1
14.4 Packing group	
ADR/RID/ADN	
Packing group	: Not assigned by regulation
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Hazard Identification Number Labels	: 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 	
4.5 Environmental hazards		
ADR/RID/ADN Environmentally hazardous	: no	
IMDG Marine pollutant	: no	
14.6 Special precautions for user Not applicable		

SECTION 15: Regulatory information

15.1 Safety, health and environ	mental regulations/legislatior	า ร	specific for the subs	tance or mixture
REACH - Restrictions on the the market and use of certair preparations and articles (An	n dangerous substances,		dimethyl ether Xylene, mixture of isc hydrocarbons, C3-4 butanone iso-butanol	omers
REACH - Candidate List of S Concern for Authorisation (A		:	This product does no substances of very hi (Regulation (EC) No 1907/2006 (REACH),	gh concern
REACH - List of substances (Annex XIV)	subject to authorisation :	:	Not applicable	
Seveso III: Directive 2012/18 major-accident hazards invol	P/EU of the European Parliamer ving dangerous substances.	nt a		
50		~	Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOL	.S	150 t	500 t

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15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

	Extremely flammable gas.	
	Highly flammable liquid and vapour.	
	Flammable liquid and vapour.	
H280 :	Contains gas under pressure; may explode if heated.	
H302 :	Harmful if swallowed.	
H304 :	May be fatal if swallowed and enters airways.	
H312 :	Harmful in contact with skin.	
H315 :	Causes skin irritation.	
H317 :	May cause an allergic skin reaction.	
H318 :	Causes serious eye damage.	
H319 :	Causes serious eye irritation.	
H332 :	Harmful if inhaled.	
H335 :	May cause respiratory irritation.	
H336 :	May cause drowsiness or dizziness.	
H351 :	Suspected of causing cancer.	
H373 :	May cause damage to organs through prolonged or repeated	
	exposure.	
Full text of other abbreviations		
	A quita taviaitu	

Acute Tox.	: Acute toxicity
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
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
Further information	
Training advice	· Provide adequate information instruction and training

Training advice

Provide adequate information, instruction and training for operators.

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.