

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Jokisch Monos Atos M4S**

Revision: 20.12.2025

Product code: 5500sp1

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Jokisch Monos Atos M4S

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Cutting oil

**1.3. Details of the supplier of the safety data sheet**

Company name:	Jokisch GmbH	
	Germany	
Street:	Industriestraße 5	
Place:	D-33813 Oerlinghausen	
Telephone:	+49(0)5202/9734-0	Telefax: +49(0)5202/9734-49
E-mail:	info@jokisch-fluids.de	
Contact person:	Regulatory affairs	
E-mail:	MSDS@jokisch-fluids.de	
Internet:	www.jokisch-fluids.de	

**1.4. Emergency telephone number:**

Emergency telephone number (24h) +1 872 5888271 (JRR) (en)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Aerosol 1; H222-H229  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

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 naked flames or any incandescent material. Keep away from sources of ignition - No smoking.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**2.2. Label elements****Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts. May produce an allergic reaction.

**Precautionary statements**

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.

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P273 Avoid release to the environment.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

**Special labelling**

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

**Additional advice on labelling**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
106-97-8	butane			25-50 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1; H220			
74-98-6	propane			2,5-10 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1; H220			
75-28-5	isobutane			<=2,5 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1; H220			
1471316-72-9	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts			0.1 - < 1 %
	939-603-7		01-2119978241-36	
	Skin Sens. 1; H317			
25307-17-9	2,2'-(Octadec-9-enylimino)bisethanol			0.1 - < 1 %
	246-807-3		01-2119510876-35	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H400 H410			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
1471316-72-9	939-603-7	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts	0.1 - < 1 %	
	dermal: LD50 = 2000 mg/kg; oral: LD50 = 10000-20000 mg/kg			
25307-17-9	246-807-3	2,2'-(Octadec-9-enylimino)bisethanol	0.1 - < 1 %	
	oral: LD50 = 1000-1587 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1			

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Move victim to fresh air. Put victim at rest and keep warm. Do not leave affected person unattended.



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**After inhalation**

Provide fresh air.  
Seek medical attention if problems persist.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Induce vomiting when the affected person is not unconscious. Seek medical advice immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Atomized water.  
Use alcohol resistant foam. for extinction.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear personal protection equipment. Keep away from unprotected people. Keep upwind. Provide adequate ventilation. High slip hazard because of leaking or spilled product. Remove all sources of ignition.  
Avoid contact with skin. Avoid contact with eyes.  
Avoid breathing dust/fume/gas/mist/vapours/spray.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****Other information**

Provide adequate ventilation. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**6.4. Reference to other sections**

See protective measures under point 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Handle and open container with care.

**Advice on protection against fire and explosion**

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 naked flames or any incandescent material.

**Advice on general occupational hygiene**

Wash hands before breaks and after work.

Do not put any product-impregnated cleaning rags into your trouser pockets. Do not breathe gas/fumes/vapour/spray.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.

storage temperature: 15 - 35 °C, Do not store at temperatures over: 50 °C

**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Store in a cool dry place. Keep container tightly closed.

Protect from direct sunlight.

**7.3. Specific end use(s)**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
74-98-6	Aliphatic hydrocarbon gases, Alkanes (C1-C3), Propane	-	-		Asphyxiant	
75-28-5	Butane, all isomers - Isobutane	1000	-		STEL (15 min)	
106-97-8	Butane, all isomers - n-butane	1000	-		STEL (15 min)	

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#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1471316-72-9	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts			
Worker DNEL, long-term		inhalation	systemic	35,26 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,518 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
25307-17-9	2,2'-(Octadec-9-enylimino)bisethanol			
Worker DNEL, long-term		inhalation	systemic	2,96 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,42 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,522 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,15 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,15 mg/kg bw/day

#### PNEC values

CAS No	Substance	Value
1471316-72-9	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts	
Freshwater		0,1 mg/l
Marine water		0,1 mg/l
Freshwater sediment		45211 mg/kg
Marine sediment		45211 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		36739 mg/kg
25307-17-9	2,2'-(Octadec-9-enylimino)bisethanol	
Freshwater		0,214 mg/l
Marine water		0,0214 mg/l
Freshwater sediment		1,692 mg/kg
Marine sediment		0,1692 mg/kg
Secondary poisoning		2 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,5 mg/l
Soil		5,0 mg/kg

#### 8.2. Exposure controls



Individual protection measures, such as personal protective equipment



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#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: Nitrile. EN ISO 374

Thickness of glove material: > 480 min / 0,4mm

#### Skin protection

Only wear fitting, comfortable and clean protective clothing.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	light yellow	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		-44 °C
Lower explosion limits:		1,5 vol. %
Upper explosion limits:		8,5 vol. %
Flash point:		not applicable
Auto-ignition temperature:		365 °C
pH-Value:		not applicable
Vapour pressure: (at 20 °C)		2000-4000 hPa
Density (at 20 °C):		0,75 g/cm <sup>3</sup>

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

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 naked flames or any incandescent material. Danger of bursting container. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

#### Other safety characteristics

Solvent content: 0,0%

#### Further Information

Vapours are heavier than air and will spread at floor level.

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Pressurised container: May burst if heated.

### 10.4. Conditions to avoid

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Danger of bursting container.

### 10.5. Incompatible materials

Oxidizing agents.

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**10.6. Hazardous decomposition products**

In case of fire may be liberated: Pyrolysis products, toxic.

**Further information**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Based on available data, the classification criteria are not met.

Irritant effect on the skin: mild irritant.

Irritant effect on the eye: mild irritant.

There is no obligatory labelling requirement according to the Directive covering preparations 1999/45/EC.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1471316-72-9	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts				
	oral	LD50 10000-20000 mg/kg	Rat	ECHA	
	dermal	LD50 2000 mg/kg	Rat	ECHA	
25307-17-9	2,2'-(Octadec-9-enylimino)bisethanol				
	oral	LD50 1000-1587 mg/kg	Rat	ECHA	

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

Contains Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

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Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1471316-72-9	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 203
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		OECD 202
	Algae toxicity	NOEC > 1000 mg/l	3 d	Scenedesmus subspicatus		OECD 201
	Acute bacteria toxicity	EC50 >10000 mg/l ( )				

**12.2. Persistence and degradability**

No information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
1471316-72-9	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts			
	RA_CAS 70024-69-0, OECD 301D	8,0%	28	
	Not easily bio-degradable (according to OECD-criteria).			

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
75-28-5	isobutane	2,8
1471316-72-9	Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts	6,91
25307-17-9	2,2'-(Octadec-9-enylimino)bisethanol	3,4

**12.4. Mobility in soil**

No information available, because for the substance no chemical safety report is required.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

List of Wastes Code - residues/unused products

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160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
Hazard label: 2.1



Classification code: 5F  
Limited quantity: LQ2

**Other applicable information (land transport)**

Special provisions: 190 - 327 - 625  
E0  
Transport category: 2  
Tunnel restriction code: D

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2, see SP63

Marine pollutant: •  
Limited quantity: See SP277  
EmS: F-D, S-U

**Other applicable information (marine transport)**

Special provisions: 63, 190, 277, 327, 959

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



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Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

**Other applicable information (air transport)**

E0  
: Y203  
150 kg

Danger releasing substance: No information available.

**14.6. Special precautions for user**

Personal protection equipment: see section 8

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40

Directive 2004/42/EC on VOC in  
paints and varnishes: 35,56%**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**For the following substances of this mixture a chemical safety assessment has been carried out:  
Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,5,7,8,11,12,15,16.

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)



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#### Abbreviations and acronyms

Flam. Gas 1: Flammable gases, hazard category 1  
Aerosol 1: Aerosols, hazard category 1  
Acute Tox. 4: Acute toxicity, hazard category 4  
Skin Corr. 1B: Skin corrosion, sub-category 1B  
Skin Sens. 1: Skin sensitisation, hazard category 1  
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
Repr. - Reproduktionstoxizität  
Asp. Tox. - Aspirationstoxizität  
Acute Tox. - Akute Toxizität  
Aquatic Acute - Akute aquatische Toxizität  
Aquatic Chronic - Chronische aquatische Toxizität  
Eye Dam. - Augenschaden/-reizung  
Eye Irrit. - Augenreizung  
Skin Corr. - Ätzwirkung auf die Haut  
Skin Irrit. - Hautreizung  
Skin Sens. - Hautallergen  
Resp. Sens. - Inhalationsallergen  
STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition  
STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition

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VOC - Flüchtige organische Verbindungen

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
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.
EUH208	Contains Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts. May produce an allergic reaction.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*