

Safety data sheet

according to 1907/2006/EC, Article 31. (2020/878)




Printing date: 07.05.2024

Revision: 07.05.2024

* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** JLM Intake Cleaner 500ml
- **Article number:** J02290
- **Relevant identified uses of the substance or mixture and uses advised against -**
- **Application of the substance / the mixture** Cleaner solvent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
JLM Lubricants BV
Demeterlaan 30
1118 BG Schiphol
The Netherlands
Tel: +31 (0) 20 201 4998
- **Further information obtainable from:** Research & Development: info@jlm lubricants.com
- **Emergency telephone number:** During normal business hours: Tel: +31 (0) 202014995

* 2 Hazards identification

- **Classification of the substance or mixture**
flame
 Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- **corrosion**
 Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.
- **! (Health hazard)**
 STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



- **Signal word** Danger

- **Hazard-determining components of labelling:**

ammonia 24.5 %
Hydrocarbons,C9,aromatics
1-methoxy-2-propanol

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Hazard statements

- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 H314 Causes severe skin burns and eye damage.
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 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 mist/vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P403 Store in a well-ventilated place.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterisation: Mixtures

· **Description:** Cleansing agent

Dangerous components:

CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol Consisting of: 1589-47-5 2-methoxypropanol (>0.1-<0.3%) Flam. Liq. 3, H226; STOT SE 3, H336	10-<25%
CAS: 128601-23-0 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons,C9,aromatics Consisting of: 98-82-8 isopropylbenzene (<2%); 71-43-2 benzene (<0.1%) Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-<10%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol Acute Tox. 3, H311; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-<10%
CAS: 1336-21-6 EINECS: 215-647-6 Reg.nr.: 01-2119488876-14	ammonia 24.5 % Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: C ≥ 5 %	≥5-<10%

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CAS: 157627-86-6	Alcohols, C13-15-branched and linear,ethoxylated Aquatic Acute 1, H400; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	2.5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1-<2.5%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	0.1-<1%

Ingredients according to detergents guideline 648/2004/EC

aliphatic hydrocarbons	≥30%
aromatic hydrocarbons	≥15 - <30%
non-ionic surfactants	<5%

Additional information:

Aerosols and containers fitted with a solid atomizer containing substances or mixtures classified as hazardous by aspiration shall not be labelled for that hazard.

The text of the hazard statements mentioned here can be found in chapter 16.

The application of a CRF (Child-Resist Fastening) is mandatory if this product is offered on the consumer market. Note that the CRF is part of the packaging and not the classification.

The application of a TWD (Tactile Warning of Danger) is mandatory if this product is offered on the consumer market. Please note that the TWD is part of the packaging and not of the classification.

4 First aid measures

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Suitable extinguishing agents:**
Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant foam
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** Mount respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.

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- Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
- Do not spray onto a naked flame or any incandescent material.
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
- Store in a cool location.
- Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:**
- Observe official regulations on storing packagings with pressurised containers.
- **Further information about storage conditions:**
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.

· Ingredients with limit values that require monitoring at the workplace:

107-98-2 1-methoxy-2-propanol

WEL	Short-term value: 560 mg/m ³ , 150 ppm
	Long-term value: 375 mg/m ³ , 100 ppm
	Sk

74-98-6 propane

OEL	Long-term value: 1800 mg/m ³ , 1000 ppm
	Additioneel ingevuld tbv klant voor Hfdst3 SDS

106-97-8 butane (containing < 0.1% butadiene (203-450-8), Note K)

WEL	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)

75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8), Note K)

OEL	Long-term value: 2400 mg/m ³ , 1000 ppm
	Additioneel ingevuld obv klant voor Hfdst 3 SDS

- **Regulatory information** WEL: EH40/2020

· DNELs

107-98-2 1-methoxy-2-propanol

Oral	DNEL Long term-systemic	3.3 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	18.1 mg/kg bw/day (Consumer)
		50.6 mg/kg bw/day (Worker)
Inhalative	DNEL Acute-local	553.5 mg/m ³ (Worker)

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	DNEL Long term-systemic	43.9 mg/m ³ (Consumer) 369 mg/m ³ (Worker)
128601-23-0 Hydrocarbons,C9,aromatics		
Oral	DNEL Long term-systemic	11 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	11 mg/kg bw/day (Consumer) 25 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	32 mg/m ³ (Consumer) 100 mg/m ³ (Worker)
111-76-2 2-butoxyethanol		
Oral	DNEL Acute-systemic	26.7 mg/kg bw/day (Consumer)
	DNEL Long term-systemic	6.3 mg/kg bw/day (Consumer)
Inhalative	DNEL Aigu-systémique	426 mg/m ³ (Consumer) 1091 mg/m ³ (Worker)
	DNEL Acute-local	147 mg/m ³ (Consumer) 426 mg/m ³ (Worker)
	DNEL Long term-systemic	59 mg/m ³ (Consumer) 98 mg/m ³ (Worker)
1336-21-6 ammonia 24.5 %		
Oral	DNEL Acute-systemic	6.8 mg/kg bw/day (Consumer)
	DNEL Long term-systemic	6.8 mg/kg bw/day (Consumer)
Dermal	DNEL Acute-systemic	68 mg/kg bw/day (Consumer) 6.8 mg/kg bw/day (Worker)
	DNEL Long term-systemic	68 mg/kg bw/day (Consumer) 6.8 mg/kg bw/day (Worker)
Inhalative	DNEL Aigu-systémique	23.8 mg/m ³ (Consumer) 47.6 mg/m ³ (Worker)
	DNEL Acute-local	7.2 mg/m ³ (Consumer) 36 mg/m ³ (Worker)
	DNEL Long term-systemic	23.8 mg/m ³ (Consumer)
	DNEL Long term-local	2.8 mg/m ³ (Consumer) 14 mg/m ³ (Worker)

· PNECs

107-98-2 1-methoxy-2-propanol

PNEC Freshwater	10 mg/l (Undefined)
PNEC Freshwater sediment	41.6 mg/l(dry weight) (Undefined)
PNEC Soil	2.47 mg/kg (Undefined)

111-76-2 2-butoxyethanol

PNEC Freshwater	8.8 mg/l (Undefined)
PNEC Marine water	0.88 mg/l (Undefined)
PNEC Freshwater sediment	34.6 mg/l(dry weight) (Undefined)
PNEC Intermittent release	9.1 /mg/l (Undefined)
PNEC Soil	2.33 mg/kg (Undefined)
PNEC Sewage Treatment Plant	463 mg/l (Undefined)
PNEC Marine water sediment	3.46 mg/l(dry weight) (Undefined)

1336-21-6 ammonia 24.5 %

PNEC Freshwater	0.0011 mg/l (Undefined)
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PNEC Marine water	0.0011 mg/l (Undefined)
PNEC Intermittent release	0.0068 (Undefined)

· **Ingredients with biological limit values:**

111-76-2 2-butoxyethanol

BMGV	240 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: butoxyacetic acid

- **Regulatory information** BMGV: EH40/2011
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
 General ventilation
- **Respiratory protection:**
 Use suitable respiratory protective device in case of insufficient ventilation.
 Filter ABEK/P2
- **Protection of hands:**
 Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Safety glasses



Tightly sealed goggles

· **Body protection:**

Use protective suit. (EN-13034/6)

Fully skin-covering anti-static, chemical- and oil-resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).

· **Limitation and supervision of exposure into the environment**

Use an appropriate container to avoid environmental pollution.

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9 Physical and chemical properties

· General Information

· Colour:	Colourless
· Odour:	Ammonia-like
· Odour threshold:	Not determined.
· pH-value at 20 °C:	10
· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	-44.5 °C
· Flash point:	-97 °C
· Flammability (solid, gas):	Not applicable.
· Ignition Temperature	240 °C
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
· Lower:	0.7 Vol %
· Upper:	20 Vol %
· Vapour pressure at 20 °C:	8300 hPa
· Density at 20 °C:	0.869 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined
· Kinematic:	Not determined.
· Organic solvents:	58.5 %
· Water:	17.0 %

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity

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

111-76-2 2-butoxyethanol

Oral	ATE	1200 mg/kg (ATE)
Inhalative	ATE	3 mg/l (ATE)

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	12424 mg/kg
Dermal	LD50	3106 mg/kg
Inhalative	LC50 (4h)	114 mg/l

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107-98-2 1-methoxy-2-propanol		
Oral	LD50	4016 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Inhalative	LC50 (4h)	28.8 mg/l (Rat)
	LC50 (6h)	27596 mg/m ³ (Rat)
128601-23-0 Hydrocarbons,C9,aromatics		
Oral	LD50	3492 mg/kg (Rat)
Dermal	LD50	>3160 mg/kg (Rabbit)
Inhalative	LC50 (4h)	>6193 mg/l (Rat) (Acute Inhalation Toxicity)
111-76-2 2-butoxyethanol		
Dermal	LD50	>2000 mg/kg (Guinea pig) (Acute Dermal Toxicity)
Inhalative	LC0	>3.1 mg/l (Guinea pig)
	LC50	>400 mg/L /7h (Guinea pig)
1336-21-6 ammonia 24.5 %		
Oral	LD50	350 mg/kg (Rat)
Inhalative	LC50	9850-13770 mg/m ³ /1h (Rat)
157627-86-6 Alcohols, C13-15-branched and linear,ethoxylated		
Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

12 Ecological information

· Toxicity

· Aquatic toxicity:

107-98-2 1-methoxy-2-propanol	
LC50 (96h) (static)	6812 mg/l (Leuciscus idus)
	>1000 mg/l (Oncorhynchus mykiss) (Fish, Acute Toxicity Test)
	20800 mg/l (Pimephales promelas)
EC50 (48h)	23300 mg/l (Daphnia magna)
LC50 (48h) (static)	21100-25900 mg/l (Daphnia magna)
128601-23-0 Hydrocarbons,C9,aromatics	
NOELR (72h)	1 mg/l (Pseudokirchneriella subcapitata)
EL50 (48h)	3.2 mg/l (Daphnia magna)
LL50 (96h)	9.2 mg/l (Oncorhynchus mykiss)
111-76-2 2-butoxyethanol	
LC50	1490 mg/l /96h (Lepomis macrochirus) (Fish, Acute Toxicity Test)
NOEC	286 mg/l /72h (Pseudokirchneriella subcapitata) (Freshwater Alga and Cyanobacteria, Growth Inh.test)
NOEC (21 days)	100 mg/l (Daphnia magna) (Daphnia magna Reproduction Test)

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EC0	700 mg/l /16h (Pseudomonas putida)
EC50	1550 mg/l /8h (Daphnia magna)
	1840 mg/l /72h (algae) (Freshwater Alga and Cyanobacteria, Growth Inh.test)
1336-21-6 ammonia 24.5 %	
LC50	0.89 mg/l /96h (Oncorhynchus mykiss)
157627-86-6 Alcohols, C13-15-branched and linear,ethoxylated	
LC0 (96h)	1-10 mg/l (Brachydanio rerio)
EC10	>10 mg/l (Pseudomonas putida)
EC50 (72h)	0.1-1 mg/l (Scenedesmus subspicatus)
EC50 (48h)	0.1-1 mg/l (dap)

- **Persistence and degradability** Not easily biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|--|
| · UN-Number | UN1950 |
| · ADR, ADN, IMDG, IATA | UN1950 |
| · UN proper shipping name | UN1950 AEROSOLS |
| · ADR, ADN | AEROSOLS |
| · IMDG | AEROSOLS |
| · IATA | AEROSOLS, flammable, containing substances in Class 8, Packing Group III |

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· **Transport hazard class(es)**

· **ADR**



· **Class** 2 5FC Gases.
 · **Label** 2.1+8

· **ADN**

· **ADN/R Class:** 2 5FC

· **IMDG**



· **Class** 2.1 Gases.
 · **Label** 2.1/8

· **IATA**



· **Class** 2.1 Gases.
 · **Label** 2.1 (8)

· **Packing group**

· **ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** Yes

· **Special precautions for user**

Warning: Gases.

· **Hazard identification number (Kemler code):**

-

· **EMS Number:**

F-D,S-U

· **Segregation groups**

(SGG18) Alkalis

· **Stowage Code**

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

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

Not applicable.

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· Transport/Additional information:

· ADR

- Limited quantities (LQ) 1L
- Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
- Transport category 3
- Tunnel restriction code E

· IMDG

- Limited quantities (LQ) 1L
- Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

- UN "Model Regulation": UN 1950 AEROSOLS, 2.1 (8)

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· National regulations:

· Breakdown regulations:

Class	Share in %
Wasser	10-<25
NK	50-<75

- VOC-CH 58.50 %
- VOC-EU 508.4 g/l
- Danish MAL Code 5-3
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H220 Extremely flammable gas.
- H226 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.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31. (2020/878)

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H315 Causes skin irritation.
 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.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008**

Physical and chemical properties: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

· **Department issuing SDS:** Research & Development

· **Contact:** G Groot

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
 DNEL: Derived No-Effect Level (UK REACH)
 PNEC: Predicted No-Effect Concentration (UK REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Flam. Gas 1A: Flammable gases – Category 1A
 Aerosol 1: Aerosols – Category 1
 Press. Gas (Comp.): Gases under pressure – Compressed gas
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered. ***

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