



according to Regulation (EC) No 1907/2006

# JMC Kettenspray Trocken 300 ml

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

### 1.1. Product identifier

JMC Kettenspray Trocken 300 ml

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

### Use of the substance/mixture

Lubricating agent

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

Manufacturer

Company name: Johannes J. Matthies GmbH & Co. KG

Street: Hammerbrookstr. 97
Place: D-20097 Hamburg
Telephone: + 49 (0) 40 2 37 21-0
e-mail: info@matthies.de
Internet: www.matthies.de

**Supplier** 

Company name: Larsson UK Ltd.

Street: 7 Alpha Court, Phoenix Parkway

 Place:
 GB-NN17 5DP Corby

 Telephone:
 + 44 1536 265633

 e-mail:
 info@larsson.uk.com

 Internet:
 www.larsson.uk.com

 1.4. Emergency telephone
 + 44 1536 265633

1.4. Emergency telephone

number:

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

### Regulation (EC) No. 1272/2008

### Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane

Hydrocabons, C7, n-alkanes, iso-alkanes, cyclics

Signal word: Danger

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### Pictograms:







#### **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.
H411 Toxic 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

smokina.

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 vapour/aerosol.
P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of waste according to applicable legislation.

### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

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#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification	•	•		
75-28-5	isobutane			25 - < 50 %	
	200-857-2	601-004-00-0	01-2119485395-27		
	Flam. Gas 1, Liquefied gas; H22	0 H280	•		
64742-49-0	Hydrocabons, C7, n-alkanes, iso	-alkanes, cyclics		20 - < 25 %	
	927-510-4		01-2119475515-33		
	Flam. Liq. 2, Skin Irrit. 2, STOT S				
92128-66-0	Hydrocarbons, C6-C7, n-alkanes	20 - < 25 %			
	921-024-6		01-2119475514-35		
	Flam. Liq. 2, Skin Irrit. 2, STOT S H411				
74-98-6	propane	5 - < 10 %			
	200-827-9	601-003-00-5	01-2119486944-21		
	Flam. Gas 1, Liquefied gas; H22				
106-97-8	butane	1 - < 3 %			
	203-448-7	601-004-00-0	01-2119474691-32		
	Flam. Gas 1, Liquefied gas; H22				

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

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

# After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

## After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Immediately call a doctor.

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

Headache, Nausea, Dizziness, Irritating to skin.

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Water mist, Carbon dioxide (CO2), Foam, Extinguishing powder.

Co-ordinate fire-fighting measures to the fire surroundings.

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### Unsuitable extinguishing media

Full water jet.

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

Extremely flammable aerosol. Pressurized container: May burst if heated.

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide, aldehydes, carbon black, Pyrolysis products, toxic.

### 5.3. Advice for firefighters

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

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Keep away from sources of ignition - No smoking. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. Provide adequate ventilation as well as local exhaustion at critical locations. Use personal protection equipment.

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

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

### Further information on handling

Avoid contact with skin, eyes and clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed. Observe in addition any national regulations!

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Keep away from food, drink and animal feedingstuffs.

# Further information on storage conditions

Protect against: Frost.

Protect from direct sunlight.

Store in a cool dry place.

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Observe in addition any national regulations!

### 7.3. Specific end use(s)

Lubricating agent

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

### 8.2. Exposure controls











### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Avoid contact with eyes and skin. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Do not breathe gas/fumes/vapour/spray.

# Eye/face protection

Wear eye/face protection. (DIN EN 166)

### **Hand protection**

Wear suitable gloves. (EN ISO 374) Suitable material: NBR (Nitrile rubber)

Breakthrough time:: 480 min

Thickness of the glove material: 0,45 mm

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

# Skin protection

Wear suitable protective clothing.

### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. exceeding exposure limit values: Filtering device with filter or ventilator filtering device of type: AX (DIN EN 141)

Observe the wear time limits as specified by the manufacturer.

Observe in addition any national regulations!

### **Environmental exposure controls**

Avoid release to the environment.

Observe in addition any national regulations!

# **SECTION 9: Physical and chemical properties**

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

Physical state: Liquid (Aerosol)
Colour: light brown
Odour: like: Solvents

Test method

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pH-Value (at 20 °C): not determined DIN 19268

Changes in the physical state

Melting point:

Boiling point or initial boiling point and

-40 °C

boiling range:

Sublimation point:

Softening point:

No information available.

No information available.

No information available.

-80 °C

**Flammability** 

Solid: not applicable
Gas: not applicable

**Explosive properties** 

Extremely flammable aerosol. Vapours can form explosive mixtures with air.

Lower explosion limits: 1 vol. %
Upper explosion limits: 11 vol. %
Auto-ignition temperature: not determined

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 0,707 g/cm³ DIN 51757

Water solubility: practically insoluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Viscosity / dynamic:

Viscosity / kinematic:

Relative vapour density:

Evaporation rate:

Solvent separation test:

No information available.

No information available.

9.2. Other information

Solid content: not determined

No information available.

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting. Vapours can form explosive mixtures with air.

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### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide, aldehydes, carbon black, Pyrolysis products, toxic.

### **Further information**

Do not mix with other chemicals.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No information available.

### **Acute toxicity**

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

CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
75-28-5	isobutane						
	inhalation vapour	LC50	1237 mg/l	Mouse	Manufacturer		
64742-49-0	Hydrocabons, C7, n-alkanes, iso-alkanes, cyclics						
	oral	LD50	5500 mg/kg	Rat	Manufacturer		
	dermal	LD50 mg/kg	> 2800 - 3100	Rat	Manufacturer		
	inhalation (4 h) vapour	LC50	> 23,3 mg/l	Rat	Manufacturer		
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane						
	oral	LD50	> 5000 mg/kg	Rat	Manufacturer		
	dermal	LD50 mg/kg	> 2800 - 3100	Rabbit	Manufacturer		
	inhalation (4 h) vapour	LC50	> 25,2 mg/l	Rat	Manufacturer		
106-97-8	butane						
	inhalation (4 h) gas	LC50	658 ppm	Rat	GESTIS		

#### Irritation and corrosivity

Causes skin irritation.

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.

### Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

May cause drowsiness or dizziness. (Hydrocabons, C7, n-alkanes, iso-alkanes, cyclics; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane)

### 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.

### Specific effects in experiment on an animal

No information available.

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### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### **Practical experience**

### Other observations

No information available.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source		
75-28-5	isobutane							
	Acute fish toxicity	LC50	91,42 mg/l	96 h	Piscis	US EPA		
	Acute algae toxicity	ErC50	19,37 mg/l	96 h	Algae	US EPA OPPT		
	Acute crustacea toxicity	EC50	69,43 mg/l	48 h	Daphnia sp.	US EPA OPPT		
64742-49-0	Hydrocabons, C7, n-alkanes	, iso-alkanes,	cyclics					
	Acute fish toxicity	LC50	> 1 - 10 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer		
	Acute algae toxicity	ErC50	12 mg/l	72 h	Pseudokirchneriella subcapitata	Manufacturer		
	Acute crustacea toxicity	EC50	> 1 - 10 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer		
	Fish toxicity	NOEC	1,534 mg/l	28 d	Oncorhynchus mykiss (Rainbow trout)	Manufacturer		
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna (Big water flea)	Manufacturer		
2128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane							
	Acute fish toxicity	LC50	> 1 - 10 mg/l	96 h	Pimephales promelas (fathead minnow)	Manufacturer		
	Acute algae toxicity	ErC50	10 - 30 mg/l	72 h	Pseudokirchneriella subcapitata	Manufacturer		
	Acute crustacea toxicity	EC50	> 1 - 10 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer		
74-98-6	propane							
	Acute fish toxicity	LC50	49,9 mg/l	96 h	Piscis	US EPA		
	Acute algae toxicity	ErC50	19,37 mg/l	96 h	Algae	US EPA OPPT		
	Acute crustacea toxicity	EC50	69,43 mg/l	48 h	Daphnia sp.	US EPA OPPT		
06-97-8	butane							
	Acute fish toxicity	LC50	49,9 mg/l	96 h	Piscis	US EPA		
	Acute algae toxicity	ErC50	19,37 mg/l	96 h	Algae	US EPA OPPT		
	Acute crustacea toxicity	EC50	69,43 mg/l	48 h	Daphnia Spec.	US EPA OPPT		

# 12.2. Persistence and degradability

The product has not been tested.

The product has not been tested.				
CAS No	Chemical name			
	Method	Value	đ	Source
	Evaluation	,		•
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane			
	OECD 301F	98 %	28	Manufacturer
	Readily biodegradable (according to OECD criteria).			

# 12.3. Bioaccumulative potential

The product has not been tested.

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#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	1,09
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane	3,4 - 5,2
74-98-6	propane	1,09
106-97-8	butane	1,09

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

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

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

### List of Wastes Code - residues/unused products

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

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

**14.1. UN number:** UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1



Classification code: 5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

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Inland waterways transport (ADN)

14.1. UN number:UN 195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1



Classification code: 5F

Special Provisions: 190 327 344 625

Limited quantity: 1 L Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number:UN 195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1



Marine pollutant: yes

Special Provisions: 63, 190, 277, 327, 344, 381, 959

Limited quantity: 1000 mL Excepted quantity: E0 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1950

**14.2. UN proper shipping name:** AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1



Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

IATA-packing instructions - Passenger:

IATA-max. quantity - Passenger:

IATA-packing instructions - Cargo:

IATA-max. quantity - Cargo:

150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane

Hydrocabons, C7, n-alkanes, iso-alkanes, cyclics

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#### 14.6. Special precautions for user

Warning: Extremely flammable aerosol.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

2010/75/EU (VOC): No information available.

Information according to 2012/18/EU P3a FLAMMABLE AEROSOLS

(SEVESO III):

Additional information: E2

**Additional information** 

Aerosol directive (75/324/EEC). **National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

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

**Additional information** 

no classification: carcinogenic Benzene < 0,1% (Note: P) (21.ATP)

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Abbreviations and acronyms

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 NOFC: 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

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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

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

#### **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 receiver of our product is singularly responsible for adhering to existing laws and regulations.

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