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

### 1.1. Product identifier

Trade name/designation : KEMETYL Lacknafta  
 Chemical name of the substance : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
 EC No : 918-481-9  
 REACH Registration Number : 01-2119457273-39  
 Product code : 1293, 3088

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

Main use category : Consumer use  
 Specific use(s) : Solvent

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

Company : Kemetyl AB  
 Rörvägen 7  
 136 50 -Haninge, Sweden  
 Telephone:+46 8 504 10 100  
 Fax:+46 8 504 10 195  
 E-mail:msds@kemetyl.com  
 Website:www.kemetyl.com

Company : Kemetyl Norge AS  
 Delitoppen 3  
 1540 -Vestby, Norge  
 Telephone:+47 64 98 08 00  
 Fax:+47 64 98 08 02  
 E-mail:msds@kemetyl.com  
 Website:www.kemetyl.no

Company : Kemetyl A/S  
 Sdr. Molevej 14-16  
 4600 -Køge, Danmark  
 Telephone:+45 56 65 33 70  
 Fax:+45 56 65 70 09  
 E-mail:msds@kemetyl.com  
 Website:www.kemetyl.com

### 1.4. Emergency telephone number


Emergency telephone : SV: +46-8 504 10 100 (This telephone number is available during office hours only.)  
 Emergency telephone : NO: +47 22 59 13 00 (This telephone number is available 24 hours per day, 7 days per week.)  
 Emergency telephone : DA: +45 56 65 33 70 (This telephone number is available during office hours only.)

#### IRELAND (REPUBLIC OF)

National Poisons Information Centre  
 Beaumont Hospital +35 318 37 99 64

#### UNITED KINGDOM

National Poisons Information Service  
 (Birmingham Centre) +44 870 60 062 66 (UK only)  
 City Hospital

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### 2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Asp. Tox. 1 H304

Full text of H-phrases: see section 16

#### 2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.

Xn; R65  
R66

Full text of R-phrases: see section 16

### 2.2. Label elements

#### 2.2.1. Labelling according to Regulation (EU) 1272/2008

CLP pictograms :



GHS08

Signal word : Danger  
Hazard statements : H304 - May be fatal if swallowed and enters airways.  
Precautionary statements : P102 - Keep out of reach of children.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 - Do NOT induce vomiting.  
P405 - Store locked up.  
P501 - Dispose of contents/ container to an approved waste disposal plant.  
Extra phrases : EUH066 - Repeated exposure may cause skin dryness or cracking.

#### 2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant


### 2.3. Other hazards

Other hazards which do not result in classification : Results of PBT and vPvB assessment  
Non-classified PBT substance  
Non-classified vPvB substance

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(EC No) 918-481-9 (REACH-no) 01-2119457273-39-XXXX	100	Xn; R65 R66
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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(EC No) 918-481-9 (REACH-no) 01-2119457273-39-XXXX	100	Asp. Tox. 1, H304

Full text of R-, H- and EUH-phrases: see section 16

### 3.2. Mixtures

Not applicable

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

### 4.1. Description of first aid measures


Inhalation.	: Keep at rest. Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
Skin contact	: Remove contaminated clothing and shoes. After contact with skin, wash immediately with plenty of water and soap. Consult a physician if necessary.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
Ingestion	: Do not induce vomiting. Call a physician immediately.
Additional advice	: First aider needs to protect himself. See also section 8 Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically. When symptoms persist or in all cases of doubt seek medical advice.

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

Inhalation	: May cause irritation of respiratory tract. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact	: May be irritating Prolonged skin contact may defat the skin and produce dermatitis. Repeated exposure may cause skin dryness or cracking.
Eye contact	: Contact with eyes may cause irritation.
Ingestion	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful: may cause lung damage if swallowed. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.

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

Symptoms may be delayed.

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## SECTION 5: Firefighting measures

### **5.1. Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
 Extinguishing media which shall not be used for safety reasons : High volume water jet

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

Fire hazard : Combustible material  
 Specific hazards : The pressure in sealed containers can increase under the influence of heat.  
 Vapours may form explosive mixtures with air.  
 Vapours are heavier than air and may spread along floors.  
 Flash back possible over considerable distance.  
 Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
 Fire will produce hazardous combustion products.  
 Possible decomposition products are:  
 Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### **5.3. Advice for firefighters**

Advice for firefighters : Special protective equipment for firefighters  
 Wear full protective clothing and self-contained breathing apparatus.  
 In the event of fire, cool tanks with water spray.  
 Evacuate personnel to safe areas.

## SECTION 6: Accidental release measures

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

Advice for non-emergency personnel : Evacuate personnel to safe areas.  
 Ensure adequate ventilation.  
 Wear personal protective equipment.  
 See also section 8.  
 Avoid contact with skin, eyes and clothing.  
 Do not breathe vapours or spray mist.  
 Keep away from open flames, hot surfaces and sources of ignition.  
 Sweep up to prevent slipping hazard.  
 Advice for emergency responders : Only qualified personnel equipped with suitable protective equipment may intervene.  
 See also section 8.

### **6.2. Environmental precautions**


Environmental precautions : Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up : Prevent further leakage or spillage if safe to do so.  
 Soak up with inert absorbent material.  
 Sweep up and shovel into suitable containers for disposal.  
 Dispose of contents/container in accordance with local regulation.

### **6.4. Reference to other sections**

See also section 8 & 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	: Ensure adequate ventilation. Wear personal protective equipment. See also section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Take any precaution to avoid mixing with Incompatible materials Take care to avoid waste and spillage when weighing, loading and mixing the product. See also section 10 Always replace cap after use. Do not let product enter drains.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feedingstuffs.

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

Storage	: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Do not store near or with any of the incompatible materials listed in section 10. Keep away from food, drink and animal feedingstuffs.
Packaging material	: Store in original container.

### 7.3. Specific end use(s)

not applicable.


## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure limit(s)	: No data available
Recommended monitoring procedures:	: Personal monitoring Concentration measurement in air

### 8.2. Exposure controls

Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator with a full face mask (EN 136) Respirator with a half face mask (EN 140) Recommended Filter type: (Type A - EN 141)
Hand protection	: Wear chemically resistant gloves (tested to EN374) Nitrile rubber PVA Neoprene gloves Break through time : >240 min The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: Safety glasses with side-shields, Goggles (EN 166)
Skin and body protection	: Overalls, apron and boots recommended.

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Thermal hazard protection	:	Not required under normal use.
Engineering control measures	:	Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Organisational measures to prevent /limit releases, dispersion and exposure See also section 7
Environmental exposure controls	:	Do not flush into surface water or sanitary sewer system. Comply with applicable Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

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

Appearance	:	liquid
Colour	:	colourless
Odour	:	characteristic
pH	:	Not applicable
Melting point/range	:	< -20 °C
Boiling point/boiling range	:	175 - 225 °C
Flash point	:	> 64 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable, liquid
Explosion limits	:	0,6 - 7 vol %
Vapour pressure	:	0,05 kPa @ 20°C
Vapour density	:	> 3 Relative vapour density at 20 °C (air=1)
Relative density	:	0,8 @ 20°C
Water solubility	:	Insoluble
Partition coefficient: n-octanol/water	:	3 - 6
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	No data available
Viscosity	:	< 7 m <sup>2</sup> /s @ 40°C
Explosive properties	:	Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidizing properties	:	Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

### 9.2. Other information

No data available


## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	:	See also section 10.5
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### 10.2. Chemical stability

Stability	:	Stable under normal conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions : None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.  
See also section 7. Handling and storage

**10.5. Incompatible materials**

Incompatible materials : Oxidizing agents See also section 7. Handling and storage

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Burning produces noxious and toxic fumes. Carbon oxides

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

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<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b>	
LD50/oral/rat	> 5000 mg/kg (OECD 401, 423)
LD50/dermal/rat	> 2000 mg/kg (OECD 402)
LD50/dermal/rabbit	> 3000 mg/kg (OECD 402)
LC50/inhalation/4h/rat	> 5000 mg/m <sup>3</sup> (OECD 403)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: Not applicable

Respiratory/skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

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

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)


Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard : May be fatal if swallowed and enters airways.

**Further information**

Symptoms related to the physical, chemical and toxicological characteristics, See section 4.2.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity effects : Ecological injuries are not known or expected under normal use.

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#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Additional information

Acute toxicity  
 LL0/24h (OECD203), fish: 1000 mg/L  
 LL50/24h (OECD 203), fish: >1000 mg/L  
 EL50/48h (OECD202), crustaceans: >1000mg/L  
 EL0/48h (OECD202), crustaceans: 1000 mg/L  
 EL50/72h (OECD201), algae: >1000 mg/L  
 NOELR/72h (OECD201), algae: 1000 mg/L  
 Chronic toxicity  
 NOELR/28d, fish: 0,101 mg/l (QSAR)  
 NOELR/21d, crustaceans: 0,176 mg/l (QSAR)

### 12.2. Persistence and degradability

Persistence and degradability : Readily biodegradable (according to OECD criteria).

### 12.3. Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : 3 - 6

### 12.4. Mobility in soil

Mobility : The product evaporates slowly.  
 If product enters soil, it will be mobile and may contaminate groundwater.


### 12.5. Results of PBT and vPvB assessment

PBT/vPvB : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
 This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6. Other adverse effects

Further information : No data available



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues / unused products	: Handle with care. See also section 7. Handling and storage Do not flush into surface water or sanitary sewer system. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. Collect and dispose of waste product at an authorised disposal facility.
Contaminated packaging	: Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate. Do not use pressure to empty drums. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with local regulations.
Additional ecological information	: Do not flush into surface water or sanitary sewer system.
List of suggested waste codes/waste designations in accordance with the EWC:	: Classified as hazardous waste according to European Union regulations. Waste codes should be assigned by the user based on the application for which the product was used.

### SECTION 14: Transport information

#### 14.1. UN number

UN-No. : NA

#### 14.2. UN proper shipping name

Proper Shipping Name : Not applicable

#### 14.3. Transport hazard class(es)

##### 14.3.1. Overland transport

ADR/RID : Not classified as dangerous in the meaning of transport regulations.  
Class : Not applicable

##### 14.3.2. Inland waterway transport (ADN)

ADN : Not classified as dangerous in the meaning of transport regulations.

##### 14.3.3. Transport by sea

IMDG : Not classified as dangerous in the meaning of transport regulations.  
Class :

##### 14.3.4. Air transport


ICAO/IATA : Not classified as dangerous in the meaning of transport regulations.  
Class :

#### 14.4. Packing group

Packing group : NA

#### 14.5. Environmental hazards

Other information : No supplementary information available.

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#### **14.6 Special precautions for user**

Special precautions : Not applicable.

#### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Code: IBC : Not applicable.

### **SECTION 15: Regulatory information**

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

##### **15.1.1. EU-Regulations**

Restrictions on use :  
 3. Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC. : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : not applicable  
 Authorisations : not applicable

Special rules on packaging : Tactile warning of danger (EN/ISO 11683)

##### **15.1.2. National regulations**

DA : MAL kodes (Bekendtgørelse nr. 301/302 (1993)) : 5-3  
 NO : Produktforskriften (FOR 2004-06-01 nr 922) : Not applicable

#### **15.2. Chemical safety assessment**

Chemical Safety Assessment : A Chemical Safety Assessment has been carried out for this substance, Hydrocarbons, C10-C13.

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


Full text of R-, H- and EUH-phrases:

Asp. Tox. 1 : Aspiration hazard Category 1  
 H304 : May be fatal if swallowed and enters airways.  
 R65 : Harmful; may cause lung damage if swallowed.  
 R66 : Repeated exposure may cause skin dryness or cracking.  
 Xn : Harmful

Sources of key data used to compile the Safety Data Sheet : <http://ecb.jrc.it>

Further information : Assessment/classification, Calculation method


Abbreviations and acronyms : CSR = CSR = Chemical Safety Report  
 DNEL = DNEL = Derived No Effect Level

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LD50 = Median lethal dose  
 N.O.S. = Not Otherwise Specified  
 PNEC = Predicted No Effect Concentration  
 STEL = Short term exposure limit  
 TLV = Threshold limits  
 TWA = time weighted average  
 ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin  
 ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods Code  
 LEL = Lower Explosive Limit/Lower Explosion Limit  
 UEL = Upper Explosion Limit/Upper Explosive Limit  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 NA = not applicable

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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