



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.06.2022

Version number 14.0

Revision: 21.06.2022

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

- **1.1 Product identifier**
- **Trade name:** **KEIM LIGNOSIL-BASE-DL**
- **CAS Number:**  
64742-48-9
- **EC number:**  
918-481-9
- **Index number:**  
649-327-00-6
- **Registration number** 01-2119457273-39-XXXX
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
For this product, uses according to UK REACH have been identified. To provide a better readability, the uses are listed in the annex to this safety data sheet.
- **Application of the substance / the mixture**  
Solvent  
Diluent for KEIM LIGNOSIL-BASE
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KEIM MINERAL PAINTS LTD  
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA  
Tel +44 1952 231 250 / Fax +44 1952 231 251  
www.keim.com / sales@keimpaints.co.uk
- **Further information obtainable from:**  
David Pratt  
Telefon: +44 1952 231250  
E-Mail: sales@keimpaints.co.uk
- **1.4 Emergency telephone number:**  
GBK GmbH Global Regulatory Compliance  
Emergency number: +49(0)6132/84463

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



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- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
- **Hazard statements**  
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves / eye protection / face protection.  
P301 IF SWALLOWED:  
P315 Get immediate medical advice/attention.  
P331 Do NOT induce vomiting.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P370+P378 In case of fire: Use for extinction: Water haze, CO2, alcohol resistant foam.  
P405 Store locked up.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **2.3 Other hazards**  
Physical / Chemical Hazards:  
Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. Combustible.  
Health Hazards:  
Repeated exposure may cause skin dryness or cracking. Mildly irritating to skin. May be irritating to the eyes, nose, throat, and lungs.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

### SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**  
64742-48-9 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
- **Identification number(s)**
- **EC number:** 918-481-9
- **Index number:** 649-327-00-6
- **Description:** Dearomatised Hydrocarbons

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### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

When seeing the doctor we suggest to present this safety data sheet.  
Immediately remove any clothing soiled by the product.

##### · **After inhalation:**

Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness place patient stably in side position for transportation.

##### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
Do not use solvents or thinners.  
If skin irritation continues, consult a doctor.

##### · **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

##### · **After swallowing:**

Rinse mouth and throat well with water.  
Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

Later observation for pneumonia and pulmonary oedema.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

Water haze, extinguishing powder, alcohol resistant foam, CO<sub>2</sub>, sand.

##### · **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

In case of fire, the following can be released:

carbon oxide (CO<sub>x</sub>)

Flammable gases/vapours

Harmful and flammable vapour is released during pyrolysis.

#### · 5.3 Advice for firefighters

##### · **Special protective equipment:** Wear self-contained respiratory protective device.

##### · **Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

In case of fire do not breathe smoke, fumes and vapours.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Keep away from ignition sources.

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Do not inhale fumes.

Avoid contact with skin and eyes.

Respect the protection rules (see section 7 a. 8).

Wear protective equipment. Keep unprotected people away.

· **6.2 Environmental precautions:**

Do not allow product to reach soil, sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Follow local governmental rules and regulations.

· **6.3 Methods and material for containment and cleaning up:**

Organic solvent

Absorb with non-combustible liquid-binding material (sand, earth, diatomite, vermiculite).

Fill in labelled, lockable containers.

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Clear contaminated areas thoroughly.

· **6.4 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.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Open and handle receptacle with care.

Keep away from heat and direct sunlight.

Do not inhale aerosols.

Ensure good ventilation/exhaustion at the workplace.

See item 8 (8.2) for information about suitable protective equipment and technical precautions.

Respect the protection rules.

· **Information about fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Drip pan to be provided.

· **Information about storage in one common storage facility:** Store away from oxidising agents.

· **Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

· **Storage class:** 10

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- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics  
Vapour. RCP - TWA 1200 mg/m<sup>3</sup> 184 ppm Total Hydrocarbons
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.  
Wash hands before breaks and at the end of work.  
Immediately remove all soiled and contaminated clothing.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Filter: A
- **Hand protection** Protective gloves
- **Material of gloves**  
suitable material e.g.:  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.5$  mm  
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.
- **Penetration time of glove material**  
Value for the permeation: level  $\geq 6$  (480 min)  
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Tightly sealed goggles
- **Body protection:**  
Protective work clothing  
Solvent resistant protective clothing
- **Environmental exposure controls**  
See Section 12 and 6.2  
No further relevant information available.

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### SECTION 9: Physical and chemical properties

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

##### · General Information

· Physical state	Fluid
· Colour:	Colourless
· Odour:	Mild
· Odour threshold:	Not determined
· Melting point/freezing point:	<-25 °C
· Boiling point or initial boiling point and boiling range	186-214 °C (ASTM D86)
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	0.6 Vol %
· Upper:	7 Vol %
· Flash point:	>61 °C (ASTM D93)
· Ignition temperature:	236 °C
· Decomposition temperature:	Not determined
· pH	Not determined
· Viscosity:	
· Kinematic viscosity at 20 °C	1.57* mm <sup>2</sup> /s (ASTM D7042)
· Dynamic:	Not determined.
· Solubility	
· water:	Negligible Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 0 °C:	30-95 Pa
· Density and/or relative density	
· Density at 20 °C:	0.77-0.82* g/cm <sup>3</sup>

#### · 9.2 Other information

· Appearance:	* The values are for freshly produced material and may change with the time.
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	233-255 °C
· Explosive properties:	Product is not explosive. However, the formation of explosive air/vapour mixtures is possible.
· VOC (EC)	100.00 %
· Change in condition	
· Evaporation rate	Not determined.

#### · Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void

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· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Can react violently with oxygen rich (oxidising) material. Danger of explosion.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** oxidizing agents
- **10.6 Hazardous decomposition products:**  
In case of fire, the following can be released:  
Carbon oxides (CO<sub>x</sub>)  
Flammable gases/vapours  
No hazardous decomposition products if stored and handled as prescribed.

### 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.

**LD/LC50 values relevant for classification:****64742-48-9 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>5 mg/l (rat) (OECD 403)

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- **Skin corrosion/irritation** not primarily irritating on the skin
- **Serious eye damage/irritation** In case of longer exposure, irritating effect is possible.
- **during inhalation:** Vapours may cause drowsiness and dizziness.
- **during swallowing:**  
harmful  
May cause lung damage if swallowed.
- **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** 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**  
May be fatal if swallowed and enters airways.
- **Other information (about experimental toxicology):**  
Experimental analysis are not available.  
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
- **Subacute to chronic toxicity:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable
- **11.2 Information on other hazards**

**· Endocrine disrupting properties**

Substance is not listed.

### SECTION 12: Ecological information

**· 12.1 Toxicity****· Aquatic toxicity:****64742-48-9 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

EC 50	>1,000 mg/l (algae)
	>1,000 mg/l (invertebrates)
LC 50	>1,000 mg/l (fish)
LC0 /96h	1,000 mg/l (fish)
EC 0/48h	1,000 mg/l (daphnia)
EC 0/72h	1,000 mg/l (algae)

**· 12.2 Persistence and degradability**Easily biodegradable  
80% / 28d**· 12.3 Bioaccumulative potential** No further relevant information available.**· 12.4 Mobility in soil** No further relevant information available.**· 12.5 Results of PBT and vPvB assessment**

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

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- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**  
According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
At present there are no ecotoxicological assessments.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.
- **European waste catalogue**

14 06 03*	other solvents and solvent mixtures
-----------	-------------------------------------
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

### SECTION 14: Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>· <b>14.1 UN number or ID number</b></li><li>· <b>ADR, IMDG, IATA</b></li></ul>                            | Void   |
| <ul style="list-style-type: none"><li>· <b>14.2 UN proper shipping name</b></li><li>· <b>ADR, IMDG, IATA</b></li></ul>                           | Void   |
| <ul style="list-style-type: none"><li>· <b>14.3 Transport hazard class(es)</b></li><li>· <b>ADR, IMDG, IATA</b></li><li>· <b>Class</b></li></ul> | Void   |
| <ul style="list-style-type: none"><li>· <b>14.4 Packing group</b></li><li>· <b>ADR, IMDG, IATA</b></li></ul>                                     | Void   |
| <ul style="list-style-type: none"><li>· <b>14.5 Environmental hazards:</b></li></ul>   | Not applicable.  |
| <ul style="list-style-type: none"><li>· <b>14.6 Special precautions for user</b></li></ul>   | Not applicable   |
| <ul style="list-style-type: none"><li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li></ul>                            | SEA:<br>14.7. Transport in bulk according to Annex II of |

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MARPOL 73/78 and the IBC Code  
Substance Name: NOXIOUS LIQUID, N.F.,(7)  
N.O.S., (EXXSOL D60, contains iso-and  
cycloalkanes (C10-C11))  
Ship type required: 3  
Pollution category: Y

· **UN "Model Regulation":** Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**  
TRGS 200 (Germany)  
TRGS 500 (Germany)  
TRGS 510 (Germany)  
TRGS 900 (Germany)
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### SECTION 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.

- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department
- **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  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

UK REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

Asp. Tox. 1: Aspiration hazard – Category 1

· **This safety data sheet contains an annex !** This safety data sheet contains an annex.

GB



# KEIM LIGNOSIL-BASE-DL

## Annex to the Safety Data Sheet According to Article 31(7) of Regulation 1907/2006/EC (REACH)

### General information:

Please send requests for additional uses or for extension of exposure scenarios to the following e-mail address: sales@keimpaints.co.uk

<b>Section 1 Exposure Scenario Title</b>	
<b>Title:</b>	
Manufacture of substance	
<b>Use Descriptor</b>	
Sector(s) of Use	SU10, SU3, SU8, SU9
Process Categories	PROC1, PROC15, PROC2, PROC3, PROC4, PROC8a, PROC8b
Environmental Release Categories	ERC1, ERC4
Specific Environmental Release Category	
<b>Processes, tasks, activities covered</b>	
Manufacture of the substance or use as an intermediate, process chemical or extracting agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	
<b>Section 2 Operational conditions and risk management measures</b>	
<b>Section 2.1 Control of worker exposure</b>	
<b>Product Characteristic</b>	
Liquefied Gas	
<b>Duration, frequency and amount</b>	
Covers daily exposures up to 8 hours (unless stated differently)[G2] Covers percentage substance in the product up to 100 %[G13]	
<b>Other given operational conditions affecting workers exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented [G1]	
<b>Contributing Scenarios/Specific Risk Management Measures and Operating Conditions</b> (only required controls to demonstrate safe use listed)	
<b>General measures (Aspiration Hazard)</b>	
The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed then seek immediate medical attention. Do NOT induce vomiting.	
<b>Section 2.2 Control of environmental exposure</b>	
<b>Product characteristics</b>	
Not applicable	
<b>Duration, frequency and amount</b>	
Not applicable	
<b>Environmental factors not influenced by risk management</b>	
Not applicable	
<b>Other given operational conditions affecting environmental exposure</b>	



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Not applicable
<b>Technical conditions and measures at process level (source) to prevent release</b>
Not applicable
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>
Not applicable
<b>Organisation measures to prevent/limit release from site</b>
Not applicable
<b>Conditions and measures related to municipal sewage treatment plant</b>
Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
<b>Section 3 Exposure Estimation</b>
<b>3.1. Health</b>
Not applicable
<b>3.2. Environment</b>
Not applicable
<b>Section 4 Guidance to check compliance with the Exposure Scenario</b>
<b>4.1. Health</b>
Available hazard data do not support the need for a DNEL to be established for other health effects. [G36] Risk Management Measures are based on qualitative risk characterisation. [G37]
<b>4.2. Environment</b>
Not applicable



# KEIM LIGNOSIL-BASE-DL

<b>Section 1 Exposure Scenario Title</b>	
<b>Title:</b>	
Distribution of substance	
<b>Use Descriptor</b>	
Sector(s) of Use	SU3, SU8, SU9
Process Categories	PROC1, PROC15, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6A, ERC6B, ERC6C, ERC6D, ERC7
Specific Environmental Release Category	
<b>Processes, tasks, activities covered</b>	
Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading, distribution and associated laboratory activities.	
<b>Section 2 Operational conditions and risk management measures</b>	
<b>Section 2.1 Control of worker exposure</b>	
<b>Product Characteristic</b>	
Liquefied Gas	
<b>Duration, frequency and amount</b>	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13 ]	
<b>Other given operational conditions affecting workers exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented [G1]	
<b>Contributing Scenarios/Specific Risk Management Measures and Operating Conditions</b> (only required controls to demonstrate safe use listed)	
<b>General measures (Aspiration Hazard)</b>	
The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed then seek immediate medical attention. Do NOT induce vomiting.	
<b>Section 2.2 Control of environmental exposure</b>	
<b>Product characteristics</b>	
Not applicable	
<b>Duration, frequency and amount</b>	
Not applicable	
<b>Environmental factors not influenced by risk management</b>	
Not applicable	
<b>Other given operational conditions affecting environmental exposure</b>	
Not applicable	
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Not applicable	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Not applicable	
<b>Organisation measures to prevent/limit release from site</b>	
Not applicable	
<b>Conditions and measures related to municipal sewage treatment plant</b>	



# KEIM LIGNOSIL-BASE-DL

Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
<b>Section 3 Exposure Estimation</b>
<b>3.1. Health</b>
Not applicable
<b>3.2. Environment</b>
Not applicable
<b>Section 4 Guidance to check compliance with the Exposure Scenario</b>
<b>4.1. Health</b>
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37]
<b>4.2. Environment</b>
Not applicable



# KEIM LIGNOSIL-BASE-DL

<b>Section 1 Exposure Scenario Title</b>	
<b>Title:</b>	
Formulation and (re)packing of substances and mixtures	
<b>Use Descriptor</b>	
Sector(s) of Use	SU10, SU3
Process Categories	PROC1, PROC14, PROC15, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9
Environmental Release Categories	ERC2
Specific Environmental Release Category	
<b>Processes, tasks, activities covered</b>	
Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.	
<b>Section 2 Operational conditions and risk management measures</b>	
<b>Section 2.1 Control of worker exposure</b>	
<b>Product Characteristic</b>	
Liquefied Gas	
<b>Duration, frequency and amount</b>	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13 ]	
<b>Other given operational conditions affecting workers exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented [G1]	
<b>Contributing Scenarios/Specific Risk Management Measures and Operating Conditions</b> (only required controls to demonstrate safe use listed)	
<b>General measures (Aspiration Hazard)</b>	
The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed then seek immediate medical attention. Do NOT induce vomiting.	
<b>Section 2.2 Control of environmental exposure</b>	
<b>Product characteristics</b>	
Not applicable	
<b>Duration, frequency and amount</b>	
Not applicable	
<b>Environmental factors not influenced by risk management</b>	
Not applicable	
<b>Other given operational conditions affecting environmental exposure</b>	
Not applicable	
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Not applicable	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Not applicable	
<b>Organisation measures to prevent/limit release from site</b>	
Not applicable	
<b>Conditions and measures related to municipal sewage treatment plant</b>	





# KEIM LIGNOSIL-BASE-DL

Not applicable
Conditions and measures related to external treatment of waste for disposal
Not applicable
Conditions and measures related to external recovery of waste
Not applicable
<b>Section 3 Exposure Estimation</b>
<b>3.1. Health</b>
Not applicable
<b>3.2. Environment</b>
Not applicable
<b>Section 4 Guidance to check compliance with the Exposure Scenario</b>
<b>4.1. Health</b>
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37]
<b>4.2. Environment</b>
Not applicable



# KEIM LIGNOSIL-BASE-DL

<b>Section 1 Exposure Scenario Title</b>	
<b>Title:</b>	
Use in laboratories - Industrial	
<b>Use Descriptor</b>	
Sector(s) of Use	SU3
Process Categories	PROC15
Environmental Release Categories	ERC4
Specific Environmental Release Category	
<b>Processes, tasks, activities covered</b>	
Use of the substance within laboratory settings, including material transfers and equipment cleaning.	
<b>Section 2 Operational conditions and risk management measures</b>	
<b>Section 2.1 Control of worker exposure</b>	
<b>Product Characteristic</b>	
Liquefied Gas	
<b>Duration, frequency and amount</b>	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13 ]	
<b>Other given operational conditions affecting workers exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented [G1]	
<b>Contributing Scenarios/Specific Risk Management Measures and Operating Conditions</b> (only required controls to demonstrate safe use listed)	
<b>General measures (Aspiration Hazard)</b>	
The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed then seek immediate medical attention. Do NOT induce vomiting.	
<b>Section 2.2 Control of environmental exposure</b>	
<b>Product characteristics</b>	
Not applicable	
<b>Duration, frequency and amount</b>	
Not applicable	
<b>Environmental factors not influenced by risk management</b>	
Not applicable	
<b>Other given operational conditions affecting environmental exposure</b>	
Not applicable	
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Not applicable	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Not applicable	
<b>Organisation measures to prevent/limit release from site</b>	
Not applicable	
<b>Conditions and measures related to municipal sewage treatment plant</b>	
Not applicable	
Conditions and measures related to external treatment of waste for disposal	
Not applicable	



# KEIM LIGNOSIL-BASE-DL

Conditions and measures related to external recovery of waste
Not applicable
<b>Section 3 Exposure Estimation</b>
<b>3.1. Health</b>
Not applicable
<b>3.2. Environment</b>
Not applicable
<b>Section 4 Guidance to check compliance with the Exposure Scenario</b>
<b>4.1. Health</b>
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37]
<b>4.2. Environment</b>
Not applicable



# KEIM LIGNOSIL-BASE-DL

<b>Section 1 Exposure Scenario Title</b>	
<b>Title:</b>	
Use in laboratories - Professional	
<b>Use Descriptor</b>	
Sector(s) of Use	SU22
Process Categories	PROC15
Environmental Release Categories	
Specific Environmental Release Category	
<b>Processes, tasks, activities covered</b>	
Use of small quantities within laboratory settings, including material transfers and equipment cleaning.	
<b>Section 2 Operational conditions and risk management measures</b>	
<b>Section 2.1 Control of worker exposure</b>	
<b>Product Characteristic</b>	
Liquefied Gas	
<b>Duration, frequency and amount</b>	
Covers daily exposures up to 8 hours (unless stated differently)[G2]	
Covers percentage substance in the product up to 100 %[G13 ]	
<b>Other given operational conditions affecting workers exposure</b>	
Assumes a good basic standard of occupational hygiene is implemented [G1]	
<b>Contributing Scenarios/Specific Risk Management Measures and Operating Conditions</b> (only required controls to demonstrate safe use listed)	
<b>General measures (Aspiration Hazard)</b>	
The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard. Do not ingest. If swallowed then seek immediate medical attention. Do NOT induce vomiting.	
<b>Section 2.2 Control of environmental exposure</b>	
<b>Product characteristics</b>	
Not applicable	
<b>Duration, frequency and amount</b>	
Not applicable	
<b>Environmental factors not influenced by risk management</b>	
Not applicable	
<b>Other given operational conditions affecting environmental exposure</b>	
Not applicable	
<b>Technical conditions and measures at process level (source) to prevent release</b>	
Not applicable	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Not applicable	
<b>Organisation measures to prevent/limit release from site</b>	
Not applicable	
<b>Conditions and measures related to municipal sewage treatment plant</b>	
Not applicable	
Conditions and measures related to external treatment of waste for disposal	
Not applicable	



# KEIM LIGNOSIL-BASE-DL

Conditions and measures related to external recovery of waste
Not applicable
<b>Section 3 Exposure Estimation</b>
<b>3.1. Health</b>
Not applicable
<b>3.2. Environment</b>
Not applicable
<b>Section 4 Guidance to check compliance with the Exposure Scenario</b>
<b>4.1. Health</b>
Available hazard data do not support the need for a DNEL to be established for other health effects.[G36] Risk Management Measures are based on qualitative risk characterisation. [G37]
<b>4.2. Environment</b>
Not applicable

- End of Safety Data Sheet -