



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

Printing date 25.09.2018

Version number 14.0

Revision: 25.09.2018

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

- **1.1 Product identifier**
- **Trade name: KEIM LIGNOSIL-HRP-FLÜSSIG**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Liquid component for mixing the woodcrackpaste
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIMFARBEN GMBH
Keimstraße 16 / 86420 Diedorf
Tel. +49 (0)821 4802-0
Fax +49 (0)821 4802-210
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**
Product safety department
Telefon: 49(0)821/4802-138
E-Mail: sdb.info@keimfarben.de
- **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**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
Contains drying oils. Risk of self-ignition. After spills and used cloths, etc. have been recovered, store in fireproof waste disposal containers before destroying.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Solvent mixture with additives

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· Dangerous components:

EC number: 940-727-9 Reg.nr.: 012120083064-61-xxxx	Alkanes, C12-C15-branched and linear ⚠ Asp. Tox. 1, H304	25-40%
CAS: 64742-48-9 EINECS: 265-150-3 Reg.nr.: 01-2119457273-39	Naphtha (petroleum), hydrotreated heavy ⚠ Asp. Tox. 1, H304	1-3%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures**· General information:**

Immediately remove any clothing soiled by the product.
In case of unconsciousness do not administer anything by mouth.
With appearance of symptoms or in cases of doubt seek medical advice .
When seeing the doctor we suggest to present this safety data sheet.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.
Keep affected person warm and quiet.

· 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 out mouth and then drink plenty of 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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media**· Suitable extinguishing agents:**

Water haze, extinguishing powder, alcohol resistant foam, CO₂, 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_x)

Flammable gases/vapours

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

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· **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.
- Do not inhale fumes.
- Respect the protection rules (see section 7 a. 8).
- Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

- Do not allow product to reach soil, sewage system or any water course.
- Follow local governmental rules and regulations.
- Inform respective authorities in case of seepage into water course or sewage system.

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

- Absorb with non-combustible liquid-binding material (sand, diatomite, vermiculite).
- Send for recovery or disposal in suitable receptacles.
- Dispose of the material collected according to regulations.
- Clear contaminated areas thoroughly.
- Ensure adequate ventilation.

· **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.
- Avoid contact with skin and eyes.
- 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.
- Use explosion-proof apparatus / fittings and spark-proof tools.

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

· **Storage:**

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

- Store only in unopened original receptacles.

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· **Information about storage in one common storage facility:**

- Store away from oxidising agents.
- Do not store together with acids.
- Do not store together with alkalis (caustic solutions).

· **Further information about storage conditions:**

- Protect from heat and direct sunlight.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from frost.
- Please note information on label

· **Storage class:** 10

· **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:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

MAK (Germany)	Long-term value: 300 mg/m ³ , 50 ppm vgl. Abschn. Xc
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **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:**

- Use suitable respiratory protective device in case of insufficient ventilation.
- Combination filter A/P

· **Protection of hands:**

- Protective gloves
- After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

suitable material e.g.:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 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 ≥ 6 (480 min)

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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

- **Eye protection:** Tightly sealed goggles
- **Body protection:** Solvent resistant protective clothing
- **Limitation and supervision of exposure into the environment** See Section 12 and 6.2

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Fluid
· Colour:	Beige
· Odour:	slightly
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	Undetermined.

· Flash point: >85 °C (DIN 53213)

· Flammability (solid, gas): Not applicable.

· Ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Not determined.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure: Not determined.

· Density at 20 °C: 0.88-0.98* g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Insoluble.

· Partition coefficient: n-octanol/water: Not applicable

· Viscosity:

· Dynamic at 40 °C: 22-32* s (DIN CUP 4)

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- | | |
|------------------------------|--|
| Kinematic: | Not determined. |
| 9.2 Other information | * The values are for freshly produced material and may change with the time. |

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 and stored according to specifications.
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
oxidizing agents
Acids
Bases
- **10.6 Hazardous decomposition products:**
In case of fire, the following can be released:
carbon oxide (COx)
Flammable gases/vapours
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

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

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Has de-greasing effect on skin.
Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **during inhalation:** Irritant effect possible.
- **during swallowing:**
May cause lung damage if swallowed.
Irritant effect possible
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **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.
- **Repeated dose toxicity**
This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **AOX-indication:**
According to our standard of knowledge the product does not contain any organic bounded halogen. The product has no influence on the waste water's AOX-value.
- **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
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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.

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· European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	No dangerous good in sense of these transport regulations.
· 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** None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
 - TRGS 200 (Germany)
 - TRGS 500 (Germany)
 - TRGS 510 (Germany)
 - TRGS 900 (Germany)
- **Substances of very high concern (SVHC) according to REACH, Article 57** not applicable
- **Product-Code/Giscode:** BSL50
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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.

- **Relevant phrases**
 - H304 May be fatal if swallowed and enters airways.
- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport 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
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - SVHC: Substances of Very High Concern
 - vPvB: very Persistent and very Bioaccumulative
 - AGW: Arbeitsplatzgrenzwert (Germany)
 - REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
 - Asp. Tox. 1: Aspiration hazard – Category 1
- *** Data compared to the previous version altered.**