

Material safety data sheet
according to 1907/2006/EC, Article 31

Printing date 04.03.2011








Version number 23

Revision: 04.03.2011

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

- **Product identifier**
- **Trade name: LÖSER 31**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** *Cleaning thinner*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
WAKOL GmbH
Bottenbacher Str. 30
66954 Pirmasens
thomas.wieland@wakol.de
- +49 (0)6331 8001 144
- **Informing department:** *Industrial Safety Department*
- **Emergency telephone number:**
During business hours: Industrial Safety Department; +49 (0) 6331 8001 144

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  **Xn; Harmful**
R65: Harmful: may cause lung damage if swallowed.
-  **Xi; Irritant**
R36/38: Irritating to eyes and skin.
-  **F; Highly flammable**
R11: Highly flammable.
-  **N; Dangerous for the environment**
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67: Vapours may cause drowsiness and dizziness.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
The product has been marked in accordance with EU Directives / respective national laws.
- **Code letter and hazard designation of product:**
- 


Xn Harmful
F Highly flammable
N Dangerous for the environment
- **Hazard-determining components of labelling:**
Low boiling point hydrogen treated naphtha
- **Risk phrases:**
11 Highly flammable.

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- 36/38 Irritating to eyes and skin.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29/35 Do not Empty into drains; dispose of this material and its container in a safe way.
33 Take precautionary measures against static discharges.
37 Wear suitable gloves.

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

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

3 Composition/information on ingredients**· Chemical characterization: Mixtures****· Description:** Solvent mixture**· Dangerous components:**

CAS: 92062-15-2	Low boiling point hydrogen treated naphtha	25-<50%
EINECS: 295-529-9	☒ Xn R65; ☒ F R11; ☒ N R51/53 R66-67	
CAS: 64742-49-0	Low boiling point hydrogen treated naphtha	25-<50%
EINECS: 265-151-9	☒ Xn R65; ☒ Xi R38; ☒ F R11; ☒ N R51/53 R67	
CAS: 67-64-1	acetone	10<24%
EINECS: 200-662-2	☒ Xi R36; ☒ F R11 R66-67	
CAS: 141-78-6	Ethyl acetate	10-<20%
EINECS: 205-500-4	☒ Xi R36; ☒ F R11 R66-67	
CAS: 78-93-3	Butanone	2.5-<10%
EINECS: 201-159-0	☒ Xi R36; ☒ F R11 R66-67	

· Additional information

"Naphtha" classified and marked in accordance with EU Directives RL 67/548/EWG, VO(EG) 1272/2008; Note P. [contents benzene (CAS: 71-43-2) <0,1% by weight]
For the wording of the listed risk phrases refer to section 16.

4 First aid measures**· Description of first aid measures**

- **After inhalation** Supply fresh air.
· **After skin contact** Clean with water and soap. If possible, also wash with polyethylene glycol 400.

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- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with critical values that require monitoring at the workplace:**

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

141-78-6 Ethyl acetate

WEL Short-term value: 400 ppm

Long-term value: 200 ppm

78-93-3 Butanone

WEL Short-term value: 899 mg/m³, 300 ppm

Long-term value: 600 mg/m³, 200 ppm

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· **DNELs**

92062-15-2 Low boiling point hydrogen treated naphtha

Oral DNEL 1301 mg/kg/day (consumer)

Dermal DNEL 1377 mg/kg/day (consumer)

13964 mg/kg/day (workers)

Inhalative DNEL 1131 mg/m³ (consumer)

5306 mg/m³ (workers)

64742-49-0 Low boiling point hydrogen treated naphtha

Oral DNEL 1301 mg/kg/day (consumer)

Dermal DNEL 1377 mg/kg/day (consumer)

13964 mg/kg/day (workers)

Inhalative DNEL 1131 mg/m³/day (consumer)

5306 mg/m³/day (workers)

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures** Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:** Protective gloves

· **Material of gloves**

Butyl rubber, BR

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**

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

· **Eye protection:** Goggles recommended during refilling

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid
Colour: Colourless
Smell: Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 55°C

· **Flash point:** -25°C

· **Ignition temperature:** 260°C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Critical values for explosion:**

Lower: 1.1 Vol %
Upper: 13.0 Vol %

· **Steam pressure at 20°C:** 247 mbar

· **Density at 20°C** 0.78 g/cm³ (EN ISO 2811-1)

· **Solubility in / Miscibility with**

Water: Insoluble.

· **Viscosity:**

dynamic at 20°C: 10 mPas (ISO 2555)

· **Solvent content:**

Organic solvents: 100 %
VOC 100.00 %

10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

92062-15-2 Low boiling point hydrogen treated naphtha

Oral LD50 >5000 mg/kg (rat) (OECD RL 401)

Dermal LD50 >2000 mg/kg (rabbit) (OECD RL 402)

Inhalative LC50/4h >20 mg/l (rat) (OECD 403)

64742-49-0 Low boiling point hydrogen treated naphtha

Oral LD50 >2000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

Inhalative LC50/4h >5 mg/l (rat)

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

Inhalative LC50/4h 76 mg/l (rat)

141-78-6 Ethyl acetate

Oral LD50 5600 mg/kg (rat)

Dermal LD50 >18000 mg/kg (rabbit)

Inhalative LC50/4h 1600 mg/l (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

92062-15-2 Low boiling point hydrogen treated naphtha

IC50 >1, ≤10 mg/l (algas)

64742-49-0 Low boiling point hydrogen treated naphtha

EC50/48h 7.27 mg/l (a05) (OECD RL 201)

17.06 mg/l (Daphnia magna) (OECD RL 203)

IC50 >1, ≤10 mg/l (algas)

>1, ≤10 mg/l (piscarius)

LC50/96h 9.77 mg/l (Oncorhynchus mykiss) (OECD RL 203)

67-64-1 acetone

EC5/16h 1700 mg/l (Pseudomonas putida)

EC5/72h 28 mg/l (Entosiphon sulcatum)

EC5/8d 530 mg/l (Microcystis aerruginosa)

EC50/18h 12600-12700 mg/l (Daphnia magna)

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EC50/48h 6100 mg/l (*Daphnia magna*)
 EC50/96h 8300 mg/l (*Lepomis macrochirus*)
 LC50/48h 12600 mg/l (*Daphnia magna*)
 11300 mg/l (*Leuciscus idus*)
 LC50/96h 11300 mg/l (*Leuciscus idus*) (DIN 38412 T.15)
 5540 mg/l (*Oncorhynchus mykiss*)
 8300 mg/l (*Lepomis macrochirus*)
 NOEC/16h 1700 mg/l (*Pseudomonas putida*)
 NOEC/48h 4740 mg/l (*Selenastrum capricornutum*)

141-78-6 Ethyl acetate

EC10/18h 2900 mg/l (*Pseudomonas putida*)
 EC50/48h 3300 mg/l (*Scenedesmus subspicatus*)
 717 mg/l (*Daphnia magna*)
 IC50/48h 3300 mg/l (*Scenedesmus subspicatus*)
 LC50/48h 333 mg/l (*Leuciscus idus*)
 LC50/96h 230 mg/l (*Pimephales promelas*)

· **Additional ecological information:**· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation** Must be specially treated adhering to official regulations.
- **European waste catalogue**

07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES

07 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals

07 01 04* other organic solvents, washing liquids and mother liquors

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 3 Flammable liquids.
- **Kemler Number:** 33
- **UN-Number:** 1993
- **Packaging group:** II

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- **Label** 3
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (Low boiling point hydrogen treated naphtha, Low boiling point hydrogen treated naphtha)
- **Limited quantities (LQ)** LQ4
- **Tunnel restriction code** D/E
- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 3
- **UN Number:** 1993
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E, S-E
- **Marine pollutant:** nein
- **Correct technical name:** Symbol (fish and tree)
- **Correct technical name:** FLAMMABLE LIQUID, N.O.S. (Low boiling point hydrogen treated naphtha, Low boiling point hydrogen treated naphtha)
- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label** 3
- **Packaging group:** II
- **Correct technical name:** FLAMMABLE LIQUID, N.O.S. (Low boiling point hydrogen treated naphtha, Low boiling point hydrogen treated naphtha)
- **Special precautions for user** Warning: Flammable liquids.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **VOC:**
- **VOC (EU)** 780.0 g/l
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

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

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· Relevant phrases*R11 Highly flammable.**R36 Irritating to eyes.**R38 Irritating to skin.**R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**R65 Harmful: may cause lung damage if swallowed.**R66 Repeated exposure may cause skin dryness or cracking.**R67 Vapours may cause drowsiness and dizziness.***· Department issuing data specification sheet: Industrial Safety Department.****· Contact: Dr. Thomas Wieland**

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