

# Material Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 19.08.2009

Revision: 19.08.2009

### 1 Identification of substance

· **Product details**

- **Trade name:** WAKOL NE 479 Contact Adhesive
- **Application of the substance / the preparation** Adhesives

· **Manufacturer/Supplier:**

WAKOL GmbH  
 Bottenbacher Str. 30  
 66954 Pirmasens  
 thomas.wieland@wakol.de

+49 (0)6331 8001 144

- **Informing department:** Industrial Safety Department

· **Emergency information:**

During business hours: Industrial Safety Department; +49 (0) 6331 8001 144

### 2 Hazards identification

· **Hazard designation:**



Xi Irritant  
 F Highly flammable  
 N Dangerous for the environment

· **Information pertaining to particular dangers for man and environment**

- R 11 Highly flammable.
- R 36/38 Irritating to eyes and skin.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 67 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.

### 3 Composition/information on ingredients

· **Chemical characterization**

- **Description:** Adhesive

· **Dangerous components:**

CAS: 92062-15-2	Low boiling point hydrogen treated naphtha	25-<50%
EINECS: 295-529-9	Xi,  Xi,  F,  N; R 11-38-51/53-65-67	
CAS: 67-64-1	acetone	5<15%
EINECS: 200-662-2	Xi,  F; R 11-36-66-67	
CAS: 141-78-6	Ethyl acetate	5<15%
EINECS: 205-500-4	Xi,  F; R 11-36-66-67	
CAS: 64742-49-0	Low boiling point hydrogen treated naphtha	5<15%
EINECS: 265-151-9	Xi,  Xi,  F,  N; R 11-38-51/53-65-67	
CAS: 78-93-3	Butanone	1.0-<5%
EINECS: 201-159-0	Xi,  F; R 11-36-66-67	
CAS: 1314-13-2	zinc oxide	0.1-<1.0%
EINECS: 215-222-5	N; R 50/53	

· **Additional information**

"Naphtha" classified and marked in accordance with EU Directives RL 67/548/EWG, Note P.  
 [contents benzene (CAS: 71-43-2) <0,1% by weight]

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For the wording of the listed risk phrases refer to section 16.

#### **4 First aid measures**

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

- **Suitable extinguishing agents**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with full jet
- **Special hazards caused by the material, its products of combustion or flue gases:**  
Formation of toxic gases is possible during heating or in case of fire.  
Hydrogen chloride (HCl)
- **Protective equipment:** Wear self-contained respiratory protective device.

#### **6 Accidental release measures**

- **Person-related safety precautions:**  
Ensure adequate ventilation  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:**  
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.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

#### **7 Handling and storage**

- **Handling**
- **Information 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.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
  - 67-64-1 acetone**  
WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm  
Long-term value: 1210 mg/m<sup>3</sup>, 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/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
Sk
- **Additional information:** The lists valid during the making were used as basis.
- **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:**  
For direct contact with liquid adhesive (for example cleaning works): protective gloves. Otherwise, no hand protection necessary.  
Preventive skin protection by use of skin-protecting agents is recommended.
- **Material of gloves**  
Butyl rubber, BR  
Fluorocarbon rubber (Viton)
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling

### 9 Physical and chemical properties:

- **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Beige
<b>Smell:</b>	Characteristic
- **Change in condition**
  - Melting point/Melting range:** Undetermined.
  - Boiling point/Boiling range:** 55°C
- **Flash point:** -21°C
- **Ignition temperature:** 260°C

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- **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** 0.87 g/cm<sup>3</sup> (EM ISO 2811-1)
- **Solubility in / Miscibility with Water:** Insoluble.
- **Viscosity:**
  - dynamic at 20°C:** 4400 mPas (ISO 2555)
- **Solvent content:**
  - VOC** 71.3 %
  - 71.32 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of composition:**  
Danger of forming toxic pyrolysis products.  
Chlorine compounds

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

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- 92062-15-2 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 56 mg/l (rat)
  - LC50/6h 58 mg/l (rat)
- 64742-49-0 Low boiling point hydrogen treated naphtha**
  - Oral LD50 >2000 mg/kg (rat)

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Dermal LD50 >2000 mg/kg (rabbit)

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

**1314-13-2 zinc oxide**

Oral LD50 >2000 mg/kg (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:

Irritant

**12 Ecological information:**· **Ecotoxicological effects:**· **Acquatic toxicity:****92062-15-2 Low boiling point hydrogen treated naphtha**

IC50 >1, ≤10 mg/l (algas)

**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*)

EC50/48h 6100 mg/l (*Daphnia magna*)

LC50/48h 12600 mg/l (*Daphnia magna*)

11300 mg/l (*Leuciscus idus*)

LC50/96h 11300 mg/l (*Leuciscus idus*)

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*)

**64742-49-0 Low boiling point hydrogen treated naphtha**

IC50 >1, ≤10 mg/l (algas)

>1, ≤10 mg/l (piscarius)

**1314-13-2 zinc oxide**

EC50/72h 0.17 mg/l (algas)

IC50/72h 0.1-1 mg/l (*Scenedesmus subspicatus*)

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**13 Disposal considerations**· **Product:**· **Recommendation**

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

· **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:** 1133

· **Packaging group:** III

· **Label:** 3

· **Special marking:** Symbol (fish and tree)

· **Designation of goods:** 1133 ADHESIVES, special provision 640H

· **Maritime transport IMDG/GGVSea:**

· **IMDG/GGVSea Class:** 3

· **UN Number:** 1133

· **Label:** 3

· **Packaging group:** III

· **EMS Number:** F-E,S-D

· **Marine pollutant:** nein  
Symbol (fish and tree)

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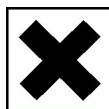
- **Correct technical name:** ADHESIVES
- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1133
- **Label:** 3
- **Packaging group:** III
- **Correct technical name:** ADHESIVES
- **Environmental hazards:** Product contains environmentally hazardous substances: zinc oxide

### 15 Regulatory information

- **Designation according to EC guidelines:**  
The product has been marked in accordance with EU Directives / respective national laws.
- **Code letter and hazard designation of product:**



*Xi Irritant*  
*F Highly flammable*  
*N Dangerous for the environment*

- **Risk phrases:**
  - 11 Highly flammable.
  - 36/38 Irritating to eyes and skin.
  - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  - 67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
  - 16 Keep away from sources of ignition - No smoking.
  - 23 Do not breathe fumes/aerosol.
  - 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.
  - 51 Use only in well-ventilated areas.
- **National regulations**  
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **VOC:**
  - **VOC (EU)** 620.8 g/l

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**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 R-phrases**

11 *Highly flammable.*

36 *Irritating to eyes.*

38 *Irritating to skin.*

50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

65 *Harmful: may cause lung damage if swallowed.*

66 *Repeated exposure may cause skin dryness or cracking.*

67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing data specification sheet:** Industrial Safety Department.

· **Contact:** Dr. Thomas Wieland

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