

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2020

Version number 1

Revision: 16.09.2020



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

- **1.1 Product identifier**
- **Trade name:** WAKOL MS 246 Starmonti
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
WAKOL GmbH  
Bottenbacher Str. 30  
D-66954 Pirmasens  
info@wakol.com  
+49 6331 8001 0
- **Informing department:**  
Product safety department.  
msds@wakol.de
- **1.4 Emergency telephone number:**  
Emergency CONTACT (24-Hour-Number):  
GBK GmbH +49 (0)6132-84463

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Adhesive
  - **Dangerous components:**
- |                           |  |           |
|---------------------------|--|-----------|
| CAS: 919-30-2             | 3-aminopropyltriethoxysilane   | >0.25–<1% |
| EINECS: 213-048-4         |  Skin Corr. 1B, H314;  Acute Tox. 4, H302; Skin Sens. 1, |           |
| Reg.nr.: 01-2119480479-24 | H317   |           |

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<p>CAS: 52829-07-9 EINECS: 258-207-9 Reg.nr.: 01-2119537297-32</p> <p>CAS: 162627-31-8</p>	<p>Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate   Eye Dam. 1, H318;  Aquatic Chronic 1, H410</p> <p>Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, mono-  C13-15-alkyl ethers, butanedioates   Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Eye Irrit. 2, H319</p>	<p>&gt;0.25–&lt;1%</p> <p>&gt;0.1–&lt;0.25%</p>
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· **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**
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **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. If symptoms persist, consult a doctor.
- **After swallowing** 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**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **6.2 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.
- **6.3 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.
- **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.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Use only in well ventilated areas.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**
- 919-30-2 3-aminopropyltriethoxysilane**
- Oral DNEL 5 mg/kg/day (consumer (short-term))
- Dermal DNEL 5 mg/kg/day (consumer (short-term))
- 8.3 mg/kg/day (workers (short-term))
- Inhalative DNEL 17.4 mg/m<sup>3</sup>/day (consumer (short-term))
- 59 mg/m<sup>3</sup>/day (workers (short-term))
- 52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate**
- Oral DNEL 0.4 mg/kg/day (consumer (long-term))
- Dermal DNEL 2.82 mg/kg/day (workers (short-term))
- 1.6 mg/kg/day (workers (long-term))
- Inhalative DNEL 0.8 mg/kg/day (consumer (long-term))
- DNEL 0.69 mg/m<sup>3</sup> (consumer (long-term))
- **PNECs**
- 919-30-2 3-aminopropyltriethoxysilane**
- PNEC 0.33 mg/l (freshwater)
- 0.033 mg/l (sea water)
- 3.3 mg/l (water - partially release)
- 13 mg/l (STP)
- PNEC 0.26 mg/kg (sediment)
- 0.04 mg/kg (soil)
- 52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate**
- PNEC 0.018 mg/l (freshwater)
- 0.0018 mg/l (sea water)
- 0.007 mg/l (water - partially release)

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1 mg/l (STP)

PNEC 5.9 mg/kg (soil)

2.9 mg/kg (sediment (sea water))

29 mg/kg (sediment (freshwater))

· **Additional information:**

The lists valid during the making were used as basis.

See Section 10.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

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

· **Protection of hands:**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

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:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

**Form:**

Pasty

**Colour:**

White

· **Smell:**

Characteristic

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

**Melting point/freezing point:**

Undetermined.

**Initial boiling point and boiling range:** Undetermined.

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- **Flash point:** >200 °C
- **Inflammability (solid, gaseous)** Not applicable.
- **Decomposition temperature:** Not determined.
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Critical values for explosion:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Steam pressure:** Not determined.
- **Density** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - dynamic:** Not determined.
  - kinematic:** Not determined.
- **VOC** 0.00 %
- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:** Product releases low quantities of methanol during appropriated application.

### 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 that are relevant for classification:**


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**919-30-2 3-aminopropyltriethoxysilane**

Oral LD50 1,490–2,690 mg/kg (rat) (EPA)

Dermal LD50 4,076 mg/kg (rabbit) (EPA)

Inhalative LC50/6h >144 mg/l (rat) (OECD TG 403)

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### 52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Oral LD50 3,700 mg/kg (rat)

Dermal LD50 3,170 mg/kg (rat)

### 162627-31-8 Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, mono-C13-15-alkyl ethers, butanedioates

Oral LD50 >4,000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**

### 919-30-2 3-aminopropyltriethoxysilane

Oral NOAEL/90d 200 mg/kg (rat) (OECD RG 408)

- **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:**

### 919-30-2 3-aminopropyltriethoxysilane

LC0/96h >934 mg/l (Brachydanio rerio) (OECD TG 203)

EC50/48h 331 mg/l (Daphnia magna) (OECD TG 202)

EC50/72h >1,000 mg/l (Scenedesmus subspicatus) (OECD TG 201)

EC10/5h 13 mg/l (Pseudomonas putida)

NOEC/72h 1.3 mg/l (Scenedesmus subspicatus) (OECD TG 201)

### 52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

NOEC/21d (static) 0.23 mg/l (Daphnia magna) (OECD RL 211)

LC50/96h 4.4 mg/l (Leuciscus macrochirus) (OECD RL 203)

EC50/48h 8.6 mg/l (Daphnia magna) (OECD RL 202 T1)

EC50/3h >100 mg/l (sludge) (OECD RL 209)

EC50/72h 0.705 mg/l (Scenedesmus subspicatus) (RL 92/69/EWG, C.3)

### 162627-31-8 Poly(oxy-1,2-ethanediyl), alpha-hydro-omega-hydroxy-, mono-C13-15-alkyl ethers, butanedioates

LC50/96h (static) 3.5 mg/l (Oncorhynchus mykiss) (OECD 203)

ErC50/72h >0.78 mg/l (Selenastrum capricornutum)

- **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.

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- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **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.  
Harmful to aquatic organisms
- **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 together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.
- **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 10 waste adhesives and sealants other than those mentioned in 08 04 09
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 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, ADN, IMDG, IATA**
- **Class** Void
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:** Not applicable.
- **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:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
None of the ingredients is listed.
- **National regulations**
- **VOC:**
- **VOC (EU)** 0.0 g/l
- **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**  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.
- **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)  
VOC: Volatile Organic Compounds (USA, EU)  
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity - oral – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3