

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

Printing date 05.12.2016

Version number 2

Revision: 06.04.2016

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****\* 1.1 Product identifier****\* Trade name** ECO 1K**\* Article number:** 0872**\* 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**Coating compound/ Surface coating/ paint  
Coating**\* 1.3 Details of the supplier of the safety data sheet****\* Manufacturer/Supplier:**Remmers GmbH  
Postfach 1255  
D-49624 Lönningen / Germany  
Tel.: +49(0)5432/83-0  
Fax: +49(0)5432/3985Remmers (UK) Limited  
Unit B1 The Fleming Centre  
West Sussex RH10 9NN  
fon +44 (0) 1293 594 010  
fax +44 (0) 1293 594 037**\* Informing department:**Product Safety department: Tel.: Steve Dunn Tel.: +44 (0) 1293 594 010  
E-Mail: sales@remmers.co.uk**\* 1.4 Emergency telephone number:**during working hours:  
U.K.: Tel.: +44 (0) 1293 594 010  
sales@remmers.co.uk  
Head Office Germany: Tel.: +49 (0)5432 83 187  
info@remmers.de  
after working hours: Tel.: +49 (0)171 21 34 09124h-Transport Emergency Contact Phone Number:  
within USA and Canada: 1-800-424-9300  
outside USA and Canada: 001-703-527-3887**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****\* Results of PBT and vPvB assessment****\* PBT:** Not applicable.**\* vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****\* 3.2 Chemical characterisation: Mixtures****\* Description:** Mixture of the substances listed below with harmless additions.

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**\* Dangerous components:**

CAS: 8052-42-4	Bitumen	20-40%
EINECS: 232-490-9	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119480172-44-XXXX		
CAS: 14808-60-7	silica (quartz, respirable)	1-2.5%
EINECS: 238-878-4	STOT RE 2, H373	

**\* 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** No special measures required.**\* After inhalation** No special requirements.**\* After skin contact** Wash immediately with water and soap and rinse thoroughly.**\* After eye contact** Rinse opened eye for several minutes under running water.**\* 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>, extinguishing powder or water jet. Fight larger fires with water jet.**\* 5.2 Special hazards arising from the substance or mixture** No further relevant information available.**\* 5.3 Advice for firefighters****\* Protective equipment:** No special measures required.**SECTION 6: Accidental release measures****\* 6.1 Personal precautions, protective equipment and emergency procedures** Not required.**\* 6.2 Environmental precautions:** Dilute with plenty of water.**\* 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**\* 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 information on disposal.

**SECTION 7: Handling and storage****\* 7.1 Precautions for safe handling** 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.**\* Further information about storage conditions:** None.**\* 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 limit values that require monitoring at the workplace:****CAS: 8052-42-4 Bitumen**WEL Short-term value: 10 mg/m<sup>3</sup>Long-term value: 5 mg/m<sup>3</sup>

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- \* **Additional information:** The lists that were valid during compilation were used as a basis.
- \* **8.2 Exposure controls**
- \* **Personal protective equipment**
- \* **General protective and hygienic measures**  
Observe the usual precautionary measures when handling chemicals.
- \* **Respiratory equipment:**  
Only during spraying without adequate removal by suction.  
Particle-Filter P2.
- \* **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- \* **Material of gloves**  
Nitrile rubber, NBR  
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.
- \* **Eye protection:** Safety glasses recommended during refilling.

### SECTION 9: Physical and chemical properties

- \* **9.1 Information on basic physical and chemical properties**
- \* **General Information**
- \* **Appearance:**

Form:	Liquid
Colour:	Dark
- \* **Odour:** Characteristic
- \* **Odour threshold:** Not determined.
- \* **pH-value at 20 °C:** 10.5
- \* **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	100 °C
- \* **Flash point:** Not applicable
- \* **Inflammability (solid, gaseous)** Not applicable.
- \* **Ignition temperature:** 490 °C
- \* **Decomposition temperature:** Not determined.
- \* **Self-inflammability:** Product is not self-igniting.
- \* **Danger of explosion:** Product is not explosive.
- \* **Explosive Limits:**

Lower:	Not determined.
Upper:	Not determined.
- \* **Vapour pressure at 20 °C:** 23 hPa
- \* **Density at 20 °C** 0.73 g/cm<sup>3</sup>
- \* **Relative density** Not determined.
- \* **Vapour density** Not determined.
- \* **Evaporation rate** Not determined.
- \* **Solubility in / Miscibility with**

Water:	Fully miscible
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- \* **Distribution coefficient (n-octanol/water):** Not determined.
- \* **Viscosity:**

dynamic at 20 °C:	6000 mPas
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<b>kinematic:</b>	Not determined.
* <b>Solvent separation test</b>	< 3 %
* <b>Organic solvents:</b>	0.0 %
* <b>9.2 Other information</b>	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

### 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:**

**CAS: 8052-42-4 Bitumen**

Oral LD50 > 5000 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.
- \* **Sensitisation:** Based on available data, the classification criteria are not met.
- \* **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:**
- \* **General notes:** Do not allow product to reach ground water, bodies of water or sewage system.
- \* **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**  
Not hardened material must be disposed of as hazardous waste according to official regulations.  
Hardened product remains may be disposed of as building rubble or put into household garbage.  
The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

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- \* **Uncleaned packaging:**
- \* **Recommendation:** Disposal must be made according to official regulations.
- \* **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

- \* **14.1 UN-Number**
- \* **ADR, ADN, IMDG, IATA** Void
- \* **14.2 UN proper shipping name**
- \* **ADR, ADN, 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:**
- \* **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.
- \* **UN "Model Regulation":** Void

### 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** Keiner der Inhaltsstoffe ist enthalten.
- \* **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

- \* **Relevant phrases**  
H373 May cause damage to organs through prolonged or repeated exposure.
- \* **Department issuing data specification sheet:** Product Safety department / EHS
- \* **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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2