

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

Printing date 10.09.2019

Version number 4

Revision: 10.09.2019

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

- **1.1 Product identifier**
- **Trade name:** **REDOCOL Osterpur**
- **UFI-Code:** D110-801V-D004-S4QU
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Ostermann UK Ltd.  
Stonebridge Cross Business Park  
Unit 104 Pointon Way  
Droitwich  
WR9 0LW  
United Kingdom  
Phone (UK): +44 (0) 1905 793 550  
Phone (Ireland): +44 (0) 1905 793 552  
Fax: +44 (0) 1905 793 559
- **Informing department:**  
Customer Service:  
Phone: +49 (0) 2871 / 2550-0
- **1.4 Emergency telephone number:**  
Gift-Informationszentrum Nord, Göttingen  
Poison Information Center, Göttingen  
Tel.: +49 (0)551 19240  
(German and English only)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Carc. 2 H351 Suspected of causing cancer.  
STOT RE 2 H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

- Acute Tox. 4 H332 Harmful if inhaled.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335 May cause respiratory irritation.

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· **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**



GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

diphenylmethane-4,4'-di-isocyanate  
 diphenylmethanediisocyanate, isomeres and homologues  
 diphenylmethane-2,4'-diisocyanate

· **Hazard statements**

H332 Harmful if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Precautionary statements**

P260 Do not breathe mist/vapours/spray.  
 P280 Wear protective gloves / eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container to collection point for hazardous waste.

· **Additional information:**

Packaging of whatever capacity that is delivered to the general public shall be fitted with a tactile warning of danger according to EN ISO 11683.  
 Contains isocyanates. May produce an allergic reaction.

· **Labelling of packages where the contents do not exceed 125 ml**

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

diphenylmethane-4,4'-di-isocyanate  
 diphenylmethanediisocyanate, isomeres and homologues  
 diphenylmethane-2,4'-diisocyanate

· **Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.

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H351 Suspected of causing cancer.

**Precautionary statements**

- P260 Do not breathe mist/vapours/spray.
- P280 Wear protective gloves / eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P405 Store locked up.
- P501 Dispose of contents/container to collection point for hazardous waste.

**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.

Mixture of the substances listed below including additives not requiring identification.

**Dangerous components:**

CAS: 9016-87-9 NLP: 500-079-6 Reg.nr.: 01-2119457024-46-X	diphenylmethanediiisocyanate, isomeres and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	10-<25%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47-X	diphenylmethane-4,4'-di-isocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	10-<25%
CAS: 5873-54-1 EINECS: 227-534-9 Reg.nr.: 01-2119480143-45-X	diphenylmethane-2,4'-diisocyanate ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	≤ 1.0%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**  
Instantly remove any clothing contaminated by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation**  
Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
In case of skin irritations or sensitizing effects, consult doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** Instantly call for doctor.
- **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**  
Use fire fighting measures that suit the environment.  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of poisonous gases during heating or in fires.  
During incomplete combustion carbon monoxide can be formed.  
Can be released in case of fire:  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (HCN)  
Isocyanates
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Put on breathing apparatus.  
Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Not required.  
Ensure adequate ventilation  
Use breathing protection against the effects of fumes/dust/aerosol.  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.  
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose of contaminated material as waste according to section 13.  
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.

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See Section 13 for information on disposal.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **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:**  
Store in a cool, dry and light-protected place.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit

#### 101-68-8 diphenylmethane-4,4'-di-isocyanate

WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
OEL (Ireland)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> as -NCO; Sens.

#### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
OEL (Ireland)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> as -NCO; Sens.

#### 5873-54-1 diphenylmethane-2,4'-diisocyanate

WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
OEL (Ireland)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> as -NCO; Sens.

- **DNELs**

#### 101-68-8 diphenylmethane-4,4'-di-isocyanate

Inhalative	DNEL (worker, short-term, local)	0.1 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	0.025 mg/m <sup>3</sup> (human)

#### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Inhalative	DNEL (worker, short-term, local)	0.1 mg/m <sup>3</sup> (human)
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	DNEL (worker, long-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	0.025 mg/m <sup>3</sup> (human)
<b>5873-54-1 diphenylmethane-2,4'-diisocyanate</b>		
Oral	DNEL (consumer, short-term, systemic)	20 mg/kg bw/day (human)
Dermal	DNEL (worker, short-term, systemic)	50 mg/kg bw/day (human)
	DNEL (consumer, short-term, systemic)	25 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, local)	28.7 mg/kg bw/day (human)
	DNEL (consumer, short-term, local)	17.2 mg/kg bw/day (human)
	DNEL (worker, short-term, systemic)	0.1 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, systemic)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, systemic)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	0.025 mg/m <sup>3</sup> (human)
	DNEL (worker, short-term, local)	0.1 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	0.05 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	0.025 mg/m <sup>3</sup> (human)

· **PNECs****101-68-8 diphenylmethane-4,4'-di-isocyanate**

PNEC aqua (freshwater)	1 mg/L (.)
PNEC aqua (marine water)	0.1 mg/L (.)
PNEC STP	1 mg/L (.)
PNEC soil	1 mg/kg soil dw (.)
PNEC aqua (intermittent releases)	10 mg/L (.)

**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

PNEC aqua (freshwater)	1 mg/L (.)
PNEC aqua (marine water)	0.1 mg/L (.)
PNEC STP	1 mg/L (.)
PNEC soil	1 mg/kg soil dw (.)

**5873-54-1 diphenylmethane-2,4'-diisocyanate**

PNEC aqua (freshwater)	1 mg/L (.)
PNEC aqua (marine water)	0.1 mg/L (.)
PNEC STP	1 mg/L (.)
PNEC soil	1 mg/kg soil dw (.)
PNEC aqua (intermittent releases)	10 mg/L (.)

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

· **8.2 Exposure controls**· **Personal protective equipment**· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Not necessary if room is well-ventilated.

· **Recommended filter device for short term use:** Combination filter A-P2

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**· Protection of hands:**


Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves** Nitrile rubber, NBR

**· 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 safety glasses.

**· Body protection:** Protective work clothing.

**· Risk management measures** Portable emergency eyewash bottle is recommended.

### SECTION 9: Physical and chemical properties

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

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>· Odour:</b>	Characteristic
<b>· Odour threshold:</b>	Not determined.

**· pH-value:** Not determined.

**· Change in condition**

<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	208 °C

**· Flash point:** 200 °C

**· Inflammability (solid, gaseous)** Not applicable.

**· Decomposition temperature:** Not determined.

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

**· Explosive properties:** Product is not explosive.

**· Critical values for explosion:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**· Vapour pressure:** Not determined.

**· Density at 20 °C** 1.09 g/cm<sup>3</sup>
**· Evaporation rate** Not determined.

**· Solubility in / Miscibility with**
**Water:** Not miscible or difficult to mix

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- |  |  |
|--|--|
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| dynamic at 20 °C:                                | 3520 mPas                                  |
| kinematic:                                       | Not determined.                            |
| · <b>Solvent content:</b>                        |  |
| · <b>Organic solvents:</b>                       |  |
| VOC EU   | 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:**  
None in case of intended use and storage in compliance with instructions.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if inhaled.

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

#### 101-68-8 diphenylmethane-4,4'-di-isocyanate

Oral	LD50	> 7,616 mg/kg (rat) (OECD 401)
Dermal	LD50	> 9,400 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	0.368 mg/l/4h (rat) (OECD 403)

#### 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LDL0	> 2,000 mg/kg (rat)
Dermal	LD50	> 9,400 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	0.49 mg/l/4h (rat) (OECD 403)

#### 5873-54-1 diphenylmethane-2,4'-diisocyanate

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 9,400 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	0.49 mg/l/4h (rat) (OECD 403)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

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· **Repeated dose toxicity****101-68-8 diphenylmethane-4,4'-di-isocyanate**Inhalative | NOAEC (2y) | 0.19 mg/m<sup>3</sup> (rat) (OECD 453)**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**Inhalative | NOAEC (2y) | 0.2 mg/m<sup>3</sup> (rat) (OECD 453)**5873-54-1 diphenylmethane-2,4'-diisocyanate**Inhalative | NOAEC (2y) | 0.19 mg/m<sup>3</sup> (rat)· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 2

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.· **Carcinogenicity**

Suspected of causing cancer.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.· **STOT-single exposure**

May cause respiratory irritation.

· **STOT-repeated exposure**

May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****101-68-8 diphenylmethane-4,4'-di-isocyanate**

EC50 (static) &gt; 1,000 mg/l/24h (Daphnia magna) (OECD 202)

EC50 (static) &gt; 1,640 mg/l/72h (Desmodesmus subspicatus) (OECD 201)

LC0 (static) &gt; 3,000 mg/l/96h (Oryzias latipes)

**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

EC50 (static) 12,937 mg/l/24h (Daphnia magna) (OECD 202)

EC0 &gt; 3,000 mg/l/96h (Oryzias latipes) (OECD 203)

**5873-54-1 diphenylmethane-2,4'-diisocyanate**

EC50 (static) 129.7 mg/l/24h (Daphnia magna) (OECD 202)

EC0 1,620 mg/l/72h (Desmodesmus subspicatus) (OECD 201)

LC0 &gt; 3,000 mg/l/96h (Oryzias latipes)

· **12.2 Persistence and degradability** No further relevant information available.· **Other information:** There are no data available about the preparation.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Behaviour in sewage processing plants:****9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

EC50 (static) &gt; 100 mg/l/3h (activated sludge) (OECD 209)

· **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 bodies or sewage system.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

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

The waste code numbers mentioned are recommendations based on the probable use of the product.

- **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 hazardous substances

- **Uncleaned packagings:**

- **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings can be used for recycling.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR/ADN, ADN, IMDG, IATA** Void

- **14.2 UN proper shipping name**

- **ADR/ADN, ADN, IMDG, IATA** Void

- **14.3 Transport hazard class(es)**

- **ADR/ADN, ADN, IMDG, IATA**

- **Class** Void

- **14.4 Packing group**

- **ADR/ADN, 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: 56a, 56b
- **National regulations**
- **Information about limitation of use:**  
Employment restrictions concerning young persons must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
None of the ingredients is contained.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Department issuing data specification sheet:**  
This Material Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.  
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- **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)  
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  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2

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

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**Trade name: REDOCOL Osterpur**

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
· \* **Data compared to the previous version altered.**

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