

# Safety data sheet

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

Printing date 13.03.2019

Version number 3

Revision: 13.03.2019

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

- . 1.1 Product identifier
- . Trade name: **Recoat Graffiti Remover**
- . Article number: 21837
- . 1.2 Relevant identified uses of the substance or mixture and uses advised against
- . Sector of Use
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- . Application of the substance / the mixture Cleaning agent/ Cleaner
- . Uses advised against SU21 Consumer uses: Private households / general public / consumers
- . 1.3 Details of the supplier of the safety data sheet
- . Manufacturer/Supplier:
  - Dercom B.V.
  - Platinawerf 24A
  - 6641 TL Beuningen - Holland
  - Tel: 0031 24 67 525 74
  - Fax: 0031 24 67 525 77
- . Further information obtainable from: a.derks@dercom.nl
- . 1.4 Emergency telephone number:
  - National Poisoning Information Centre - Bilthoven - The Netherlands
  - T +31 (0)30 274 88 88
  - Restricted to physicians for information on ingredients.

### SECTION 2: Hazards identification

- . 2.1 Classification of the substance or mixture
- . Classification according to Regulation (EC) No 1272/2008
  - The substance 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
- . Precautionary statements
  - P280 Wear protective gloves / eye protection.
  - P284 In case of inadequate ventilation wear respiratory protection.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- . Additional information:
  - EUH208 Contains Orange juice oil. May produce an allergic reaction.
  - EUH210 Safety data sheet available on request.
  - Restricted to professional users.
- . 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 substances listed below with nonhazardous additions.
- . Dangerous components %(m/m):
 

CAS: 111-76-2	2-butoxyethanol	0.5-2.5%
EINECS: 203-905-0	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit.	
Reg.nr.: 01-2119475108-36 2, H319		
- . 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: Immediately remove any clothing soiled by the product.
- . After inhalation: Supply fresh air; consult doctor in case of complaints.
- . After skin contact:
  - Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 2)

# Safety data sheet

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

Printing date 13.03.2019

Version number 3

Revision: 13.03.2019

Trade name: **Recoat Graffiti Remover**

(Contd. of page 1)

- If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Remove contactlenses.
  - **After swallowing:**  
Do not induce vomiting; call for medical help immediately.  
Rinse mouth.
  - **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 alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** Carbon monoxide (CO)
- **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** Avoid skin and eye contact.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**  
Requirements to be met by storerooms and receptacles: No special requirements.  
Information about storage in one common storage facility:  
Store away from oxidising agents.  
Store away from strong alkalis.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

#### 111-76-2 2-butoxyethanol

IOELV Short-term value: 246 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 98 mg/m<sup>3</sup>, 20 ppm  
Skin

- **DNELs**

#### Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate

Inhalative Long-term exposure - local effects 8.3 mg/m<sup>3</sup> (worker)

#### 111-76-2 2-butoxyethanol

Dermal Acute - short-term exposure - systemic effects 89 mg/kg bw/day (worker)  
Long-term exposure - systemic effects 125 mg/kg bw/day (worker)

(Contd. on page 3)

# Safety data sheet

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

Printing date 13.03.2019

Version number 3

Revision: 13.03.2019

Trade name: **Recoat Graffiti Remover**

(Contd. of page 2)

Inhalative Acute - short-term exposure - systemic effects 1,091 mg/m<sup>3</sup> (worker)Acute - short-term exposure - local effects 246 mg/m<sup>3</sup> (worker)Long-term exposure - systemic effects 98 mg/m<sup>3</sup> (worker)

## · PNECs

**Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate**

PNEC 0.09 mg/kg (bd)

PNEC 0.018 mg/l (aqua, freshwater)

0.002 mg/l (aqua, marine water)

10 mg/l (STP)

**111-76-2 2-butoxyethanol**

PNEC 3.46 mg/kg (sediment marine water)

34.6 mg/kg (sediment freshwater)

2.33 mg/kg (soil)

PNEC 463 mg/l (STP)

8.8 mg/l (aqua, freshwater)

9.1 mg/l (aqua, intermittent releases)

0.88 mg/l (aqua, marine water)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:** Immediately remove all soiled and contaminated clothing· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A.

· **Protection of hands:**

Protective gloves

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

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

· **Material of gloves**

Suitable materials for safety gloves (EN 374):

Nitrile rubber, NBR

· **Penetration time of glove material**Thickness of the gloves  $\geq 0.4$  mm (Reaction mass of 1,5-dimethyl glutarate, 1,6-dimethyl adipate and 1,4-dimethyl succinate)Value for the permeation: Level  $\geq 480$  min, protective index 6 (Reaction mass of 1,5-dimethyl glutarate, 1,6-dimethyl adipate and 1,4-dimethyl succinate)

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· **Body protection:** Solvent resistant protective clothing**SECTION 9: Physical and chemical properties**· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Liquid

Colour: Clear

· **Odour:** Orange· **Odour threshold:** Not determined.· **pH-value:** Not determined.· **Change in condition**

Melting point/freezing point: -25 °C

Initial boiling point and boiling range:  $\geq 200$  °C· **Flash point:** 103 °C· **Flammability (solid, gas):** Not applicable.

(Contd. on page 4)

# Safety data sheet

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

Printing date 13.03.2019

Version number 3

Revision: 13.03.2019

Trade name: **Recoat Graffiti Remover**

(Contd. of page 3)

· Ignition temperature:	370 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	0.27 hPa
· Density at 20 °C:	1.09 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water at 20 °C:	53 g/l Slightly soluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	2.4 mm <sup>2</sup> /s
· Solvent content:	
Organic solvents:	97.0 %
VOC (EC)	97.00 %
· 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:
  - Oxidizing agents
  - Isocyanates
- 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 relevant for classification:

#### Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

#### 111-76-2 2-butoxyethanol

- |            |        |                              |
|------------|--------|------------------------------|
| Oral       | LD50   | 1,414 mg/kg (cv) (OESO 401)  |
| Dermal     | LD50   | >2,000 mg/kg (cv) (OESO 402) |
| Inhalative | LC0/1h | >3.1 mg/l (cv) (OESO 403)    |
- 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.
  - 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.

(Contd. on page 5)

# Safety data sheet

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

Printing date 13.03.2019

Version number 3

Revision: 13.03.2019

Trade name: **Recoat Graffiti Remover**

(Contd. of page 4)

- 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:

#### Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate

LC50 18-24 mg/l (pimphales promelas)

EC50 112-150 mg/kg (daphnia magna)

#### 111-76-2 2-butoxyethanol

NOEC/21d &gt;100 mg/l (daphnia magna) (OESO 201)

NOEC/72h &gt;280 mg/l (algae) (OESO 201)

EC50/48h 1,550 mg/l (daphnia magna) (OESO 202)

EC50/72h 911 mg/l (pseudokirchneriella subcapitata) (OESO 201)

LC50/96h 1,474 mg/l (oncorhynchus mykiss) (OESO 203)

- 12.2 Persistence and degradability No further relevant information available.
- Degree of elimination:

#### Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate

BOD/28d ≥35 % (/)

- 12.3 Bioaccumulative potential

#### 111-76-2 2-butoxyethanol

BCF &lt;100 (/)

LogPow 0.81 (/)

- 12.4 Mobility in soil Adsorption to the solid soil condition is not to be expected
- 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.

- 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 Smaller quantities can be disposed of with household waste.
- European waste catalogue
- 07 01 04\* other organic solvents, washing liquids and mother liquors
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

### 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.

(Contd. on page 6)

