

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

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

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

### 1.1 Product identifier

Trade name: **Mykal Graffiti Remover Plus**

Article number: 66370001

UFI: WMMD-58QA-W56D-N3G4

### 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)

#### Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

Application of the substance / the mixture Paint remover

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

ZEP UK Ltd

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Widnes Cheshire, WA8 0RD

United Kingdom

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#### Further information obtainable from:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

1.4 Emergency telephone number: NHS +44 0845 46 47 (England or Wales); +44 08454 24 24 24 (Scotland)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1 H318 Causes serious eye damage.

### 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



GHS05

(Contd. on page 2)

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

Trade name: Mykal Graffiti Remover Plus

(Contd. of page 1)

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
4-Hydroxybutanoic acid lactone  
Alcohols, C9-11, ethoxylated
- **Hazard statements**  
H318 Causes serious eye damage.
- **Precautionary statements**  
P280 Wear eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.
- **2.3 Other hazards** The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 106-65-0 EINECS: 203-419-9 Reg.nr.: 01-2119486681-29-xxxx	dimethyl succinate ☠ Eye Irrit. 2, H319	10-25%
CAS: 96-48-0 EINECS: 202-509-5 Reg.nr.: 01-2119471839-21-XXXX	4-Hydroxybutanoic acid lactone ☞ Eye Dam. 1, H318 ☠ Acute Tox. 4, H302; STOT SE 3, H336	5-10%
CAS: 68439-46-3 EC number: 614-482-0	Alcohols, C9-11, ethoxylated ☞ Eye Dam. 1, H318 ☠ Acute Tox. 4, H302	1-2.5%

- **Ingredients according to Detergents Regulation 648/2004/EC** 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.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult 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 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:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

Trade name: **Mykal Graffiti Remover Plus**

(Contd. of page 2)

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Keep contaminated washing water and dispose of appropriately.

· **6.3 Methods and material for containment and cleaning up:**

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

Use neutralising agent.

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**

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Use only in well ventilated areas.

· **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:** Provide solvent resistant, sealed floor.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 57-55-6 Propylene glycol**

WEL (Great Britain)	Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm
	*total vapour and particulates **particulates

· **DNELs**

**CAS: 96-48-0 4-Hydroxybutanoic acid lactone**

Dermal	DNEL Long term-systemic	19 mg/kg human/day (worker)
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Inhalative	DNEL Long term-systemic mg/m <sup>3</sup>	130 mg/m <sup>3</sup> (worker)
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	DNEL Acute-systemic mg/m <sup>3</sup>	958 mg/m <sup>3</sup> (worker)
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· **PNECs**

**CAS: 96-48-0 4-Hydroxybutanoic acid lactone**

PNEC Freshwater mg/L	0.056 mg/L (-)
PNEC Marinewater mg/L	0.0056 mg/L (-)
PNEC Freshwater sediment	0.24 mg/Kg (-)
PNEC Marine water sediment	0.02 mg/Kg (-)
PNEC Intermittent release	0.56 (-)
PNEC Soil	0.014683 mg/Kg (-)
PNEC Sewage treatment Plant mg/L	452 mg/L (-)

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

Trade name: Mykal Graffiti Remover Plus

(Contd. of page 3)

Avoid contact with the eyes.  
Do not eat, drink, smoke or sniff while working.

· **Protection of hands:**



Protective gloves

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

· **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.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

PVA gloves

· **Not suitable are gloves made of the following materials: Strong material gloves**

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**

Protective work clothing

Solvent resistant protective clothing

### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

<b>Form:</b>	Viscous
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

· **Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	188 °C

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 370 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.  
Not determined.

· **Explosion limits:**

<b>Lower:</b>	0.9 Vol %
<b>Upper:</b>	8 Vol %

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1.08 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

(Contd. on page 5)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

Trade name: Mykal Graffiti Remover Plus

(Contd. of page 4)

- |  |  |
|--|--|
| · <b>Solubility in / Miscibility with water:</b> | Insoluble.                                 |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| <b>Dynamic:</b>                                  | Not determined.                            |
| <b>Kinematic:</b>                                | Not determined.                            |
| · <b>Solvent content:</b>                        |  |
| <b>Organic solvents:</b>                         | 16.0 %                                     |
| <b>EU-VOC:</b>                                   | 172.7 g/l                                  |
| <b>EU-VOC</b>                                    | 15.95 %                                    |
| <b>Swiss VOC:</b>                                | 7.98 %                                     |
| · <b>Solids content:</b>                         | 2.0 %                                      |
| · <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 relevant for classification:**

#### **CAS: 96-48-0 4-Hydroxybutanoic acid lactone**

Oral	LD50	1,582 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (gui)

#### **CAS: 68439-46-3 Alcohols, C9-11, ethoxylated**

Oral	LD50	500 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **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:**

#### **CAS: 96-48-0 4-Hydroxybutanoic acid lactone**

LC50 / 96 h	56 mg/ltr (Lepomis Macrochirus (Bluegill Sunfish))
EC 50 / 48 h	>500 mg/ltr (Daphnia magna (water flea))

(Contd. on page 6)

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

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

Trade name: Mykal Graffiti Remover Plus

(Contd. of page 5)

EC 50 / 72 H >1,000 (*Selenastrum capricornutum* (Algae))

CAS: 68439-46-3 Alcohols, C9-11, ethoxylated

LC50 / 96 h 5-7 mg/ltr (fish)

EC 50 / 48 h 2.5 mg/ltr (*Daphnia magna* (water flea))EC 50 / 72 H 1.4 /mg/l (*Selenastrum capricornutum* (Algae))

- **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, water course or sewage system.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **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** Disposal must be made according to official regulations
- **Uncleaned packaging:**
- **Recommendation:** Disposal in accordance with administrative provisions

### SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>14.2 UN proper shipping name</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Void            |
| · <b>14.4 Packing group</b>  |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>14.5 Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Reg. (EC) n. 1223/2009 (Cosmetics);  
Reg. (EC) n. 1272/2008 - CLP;  
Reg. (EC) n. 2015/830 annex II of REACH;  
Dir. 06/08 ADR – RID - IMDG - IATA;  
Dir. 12/18 (Seveso III);  
Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

(Contd. on page 7)

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

Trade name: Mykal Graffiti Remover Plus

(Contd. of page 6)

## · Hazard pictograms



GHS05

· Signal word *Danger*

## · Hazard-determining components of labelling:

4-Hydroxybutanoic acid lactone  
Alcohols, C9-11, ethoxylated

## · Hazard statements

H318 Causes serious eye damage.

## · Precautionary statements

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

## · 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:

## · Technical instructions (air):

Class	Share in %
NK	16.0

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has 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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

## · Classification according to Regulation (EC) No 1272/2008 Calculation method

## · Department issuing SDS:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

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## · Contact:

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IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

## · 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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

(Contd. on page 8)

GB

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

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

**Trade name: Mykal Graffiti Remover Plus**

(Contd. of page 7)

VOC: Volatile Organic Compounds (USA, EU)  
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  
WELL: The highest acceptable concentration  
IOELV: Indicative occupational exposure limit values  
Acute Tox. 4: Acute toxicity - oral – Category 4  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

GB

(Contd. on page 9)



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

Printing date 30.12.2020

Version: 4

Revision: 30.12.2020

Trade name: Mykal Graffiti Remover Plus

(Contd. of page 8)

### Annex: Exposure scenario

· **Short title of the exposure scenario**

For the finished product.

Mykal Graffiti Remover Plus

· **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)

· **Process category**

PROC7 Industrial spraying

PROC11 Non industrial spraying

· **Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.

· **Conditions of use**

· **Duration and frequency** 5 workdays/week.

· **Physical parameters**

· **Physical state** Fluid

· **Concentration of the substance in the mixture** The substance is main component.

· **Used amount per time or activity** According to directions for use.

· **Other operational conditions**

· **Other operational conditions affecting environmental exposure** No special measures required.

· **Other operational conditions affecting worker exposure** Avoid contact with eyes.

· **Other operational conditions affecting consumer exposure** No special measures required.

· **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

· **Risk management measures**

· **Worker protection**

· **Organisational protective measures** No special measures required.

· **Technical protective measures** Ensure that suitable extractors are available on processing machines

· **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Tightly sealed goggles

· **Measures for consumer protection** Ensure adequate labelling.

· **Environmental protection measures**

· **Water**

No special measures required.

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

· **Disposal measures** Ensure that waste is collected and contained.

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

· **Waste type** Partially emptied and uncleaned packaging

· **Exposure estimation**

· **Consumer** Not relevant for this Exposure Scenario.

· **Guidance for downstream users** No further relevant information available.