

Safety data sheet
According to 1907/2006/EC, Article 31 REACH

Printing date 04.08.2017

Version: 2

Revision: 04.08.2017

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

· **1.1 Product identifier**

· Trade name: **Zep Commercial® Graffiti Remover**

· Article number: 21000002

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC35 Washing and cleaning products (including solvent based products)

· **Application of the substance / the mixture** Cleaning agent/ Cleaner

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

ZEP UK Ltd
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Widnes Cheshire, WA8 0RR
United Kingdom
Tel: +44 (0)151 422 1000
Fax: +44 (0)151 422 1011
@: info@zep.co.uk
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ZEP Industries BV
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@: sales@zepbenelux.com

ZEP ITALIA SRL
Via Netunese Km. 25.000
04011 Aprilia (LT) - Italy
Tel: +39.06.926691
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@: tecnico@zepeurope.com
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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:**

Customer Service

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

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

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· Hazard pictograms



GHS05 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Butyrolactone
1-methoxy-2-propanol
Alcohol ethoxylate C9 - C11

· Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

· Precautionary statements

P102 Keep out of reach of children.
P260 Do not breathe mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves.
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.

· 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 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 5131-66-8 EINECS: 225-878-4 Reg.nr.: 01-2119475527-28	3-butoxypropan-2-ol ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	25-50%
EC number: 926-141-6 Reg.nr.: 01-2119456620-43	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics ⚠ Asp. Tox. 1, H304	10-25%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-xxxx	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H312; STOT SE 3, H336	10-25%
CAS: 96-48-0 EINECS: 202-509-5 Reg.nr.: 01-2119471839-21-XXXX	Butyrolactone ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; STOT SE 3, H336	10-25%
CAS: 68439-46-3 Polymer	Alcohol ethoxylate C9 - C11 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	2.5-5%

· Ingredients according to Detergents Regulation 648/2004/EC

For the wording of the listed hazard phrases refer to section 16.

Aliphatic hydrocarbons	≥15 - <30%
Nonionic surfactants	<5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

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- **After eye contact:** Rinse opened eye for several minutes under running water. Then 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:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Dilute with plenty of water.
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, universal binders).
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.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
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:** None.
- **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:**

107-98-2 1-methoxy-2-propanol (10-25%)

WEL (Great Britain) Short-term value: 560 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Sk

IOELV (European Union) Short-term value: 568 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Skin

· **DNELs**

5131-66-8 3-butoxypropan-2-ol

Oral	DNEL Long term-systemic	8.75 mg/kg human/day (consumer)
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Dermal	DNEL Acute-systemic	44 mg/kg human/day (consumer) 16 mg/kg human/day (worker)
	DNEL Long term-systemic	16 mg/kg human/day (consumer) 44 mg/kg human/day (worker)
Inhalative	DNEL Acute-systemic mg/m ³	270.5 mg/m ³ (worker)
	DNEL Long term-systemic mg/m ³	33.8 mg/m ³ (consumer)

107-98-2 1-methoxy-2-propanol

Oral	DNEL Long term-systemic	3.3 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	18.1 mg/kg human/day (consumer) 50.6 mg/kg human/day (worker)
	DNEL Acute-local mg/m ³	553.5 mg/m ³ (worker)
Inhalative	DNEL Long term-systemic mg/m ³	43.9 mg/m ³ (consumer)
		369 mg/m ³ (worker)

96-48-0 Butyrolactone

Dermal	DNEL Long term-systemic	19 mg/kg human/day (worker)
Inhalative	DNEL Acute-systemic mg/m ³	958 mg/m ³ (worker)
	DNEL Long term-systemic mg/m ³	130 mg/m ³ (worker)

PNECs
5131-66-8 3-butoxypropan-2-ol

PNEC Freshwater mg/L	0.525 mg/L
PNEC Freshwater sediment	2.36 mg/Kg
PNEC Intermittent release	5.25 (mg/l)
PNEC Marine water sediment	0.236 mg/Kg
PNEC Marinewater mg/L	0.0525 mg/L
PNEC Sewage treatment Plant mg/L	10 mg/L
PNEC Soil	0.16 mg/Kg

107-98-2 1-methoxy-2-propanol

PNEC Freshwater mg/L	10 mg/L
PNEC Freshwater sediment	41.6 mg/Kg
PNEC Marine water sediment	4.17 mg/Kg
PNEC Sewage treatment Plant mg/L	100 mg/L
PNEC Soil	2.47 mg/Kg

96-48-0 Butyrolactone

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

· **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.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

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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 374 part III 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

· **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: Viscous

Colour: Whitish

· **Odour:** Solvent-like

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 200°C

· **Flash point:** 66°C

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

· **Ignition temperature:** 230°C

· **Decomposition temperature:** Not determined.

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

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

· **Explosion limits:**

Lower: 0.6 Vol %

Upper: 20.0 Vol %

· **Vapour pressure at 20°C:** 11.6 hPa

· **Density at 20°C:** 0.9 g/cm³

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

Dynamic at 20°C: 3350 mPas

Kinematic: Not determined.

· **Solvent content:**

Organic solvents: 43.6 %

Solids content: 1.0 %

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

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- **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:

5131-66-8 3-butoxypropan-2-ol

Oral	LD50	3300 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
	EC 50 / 48 h (static)	>1000 mg/ltr (Daphnia magna (water flea))
	EC 50 / 96 h (static)	>1000 mg/ltr (Selenastrum capricornutum (Algae))
	LC50 / 96 h (static)	560-1000 mg/ltr (fish) (Poecilia reticulata)

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	LD50	>5000 mg/kg (Rat) (OECD 401)
Dermal	LD50	>5000 mg/kg (Rabbit) (OECD 402 (24 h))
Inhalative	LC50/ 8 h	>5000 mg/m ³ (Rat) (OECD 403)

107-98-2 1-methoxy-2-propanol

Oral	LD50	4016 mg/kg (Rat)
Dermal	LD50	2000 mg/kg (Rabbit)
Inhalative	LC50 / 4 h	27596 mg/ltr (Rat)
	EC 50 / 48 h (static)	23300 mg/ltr (Daphnia magna (water flea))
	LC50 / 96 h (static)	6812 mg/ltr (Leuciscus idus)

96-48-0 Butyrolactone

Oral	LD50	1582 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (gui)
	EC 50 / 48 h	>500 mg/ltr (Daphnia magna (water flea))
	EC 50 / 72 H	>1000 mg/L (Selenastrum capricornutum (Algae))
	LC50 / 96 h	56 mg/ltr (Lepomis Macrochirus (Bluegill Sunfish))

68439-46-3 Alcohol ethoxylate C9 - C11

Oral	LD50	1400 mg/kg (Rat)
Dermal	LD50	2000 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **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.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **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.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

5131-66-8 3-butoxypropan-2-ol

OECD test 301 E 90 (biodegradation in % after 28 days)

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

EL50 (48 h) >1000 mg/l (Daphnia magna (water flea)) (OECD 202)

OECD test 301 F 69 % (biodegradation in % after 28 days)

Readily Biodegradable

· 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 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.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

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:

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.

· 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 None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
NK	25-50

- **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**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Department issuing SDS:**

Customer Service

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

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

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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

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Asp. Tox. 1: Aspiration hazard – Category 1

- *** Data compared to the previous version altered.**

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Annex: Exposure scenario

- **Short title of the exposure scenario**
- **Sector of Use**
 - SU21 Consumer uses: Private households / general public / consumers
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **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.
 - Smaller than 10 g per application.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**
 - Avoid contact with eyes.
 - Avoid contact with the skin.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **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 skin.
 - Avoid contact with the eyes.
 - Tightly sealed goggles
 - Protective gloves
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Measures for consumer protection**
 - Ensure adequate labelling.
 - Keep locked up and out of the reach of children.
- **Environmental protection measures**
- **Water** No special measures 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
- **Guidance for downstream users** No further relevant information available.

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