Safety data sheet

according to 1907/2006/EC, Article 31

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

Printing date 19.12.2022

Version number 22 (replaces version 21)

Revision: 19.12.2022

· 1.1 Product identifier · Trade name: graffiti-ex L · UFI: G5F3-U05Q-A00Y-CCJ8 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 Cleaning material/ Detergent • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Pramol-Chemie AG Industriestrasse 3 CH-9602 Bazenheid/SG Tel +41 71 931 70 30 Fax +41 71 931 44 54 • Further information obtainable from: Abteilung für Produktsicherheit info@pramol.com Tel. 071 931 70 30 · 1.4 Emergency telephone number: Centre suisse d'information toxicologique, Zurich +41 (0)44 251 51 51 ou 145 (depuis la Suisse) Schweizerisches Toxikologisches Informationszentrum, Zürich +41 (0)44 251 51 51 oder aus der Schweiz: Tel 145 Centro Svizzero d'informazione tossicologica +41 (0)44 251 51 51 o dalla Svizzera: Tel 145 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. *Eye Irrit.* 2 H319 Causes serious eye irritation. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Hazard pictograms GHS07 · Signal word Warning · Hazard-determining components of labelling: 1-Butylpyrrolidin-2-one · Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements P102 Keep out of reach of children. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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. P337+P313 If eye irritation persists: Get medical advice/attention. (Contd. on page 2) GB

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· 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:

0 1		
CAS: 3470-98-2	1-Butylpyrrolidin-2-one	50-100%
EINECS: 222-437-8	() Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2120062728-48		

• 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:
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 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.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Call for a doctor 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: 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: 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. Do not allow to enter sewers
- 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.
- 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.

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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 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: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

3470-98-2 1-Butylpyrrolidin-2-one

Dermal DNEL long term systemic effects 10 mg/kg bw/day (workers)

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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 eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



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

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye/face protection



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Tightly sealed goggles

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical p	roperties
· General Information	
· Physical state	Fluid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	-75 °C
Boiling point or initial boiling point and boiling	
range	241 °C (3470-98-2 1-Butylpyrrolidin-2-one)
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	108 °C (3470-98-2 1-Butylpyrrolidin-2-one)
	Not determined.
Decomposition temperature:	
· pH Viscositu	Not determined.
Viscosity:	N-4 d-4-min - d
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
• Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
• Density and/or relative density	
· Density at 20 °C:	$0.96 \ g/cm^3$
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance: · Form:	Fluid
• Important information on protection of health an	u
environment, and on safety.	Due lust is used as 16 suiting
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent separation test:	1.0.0/
Water:	1.0%
Solids content:	0.0 %
Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classe	s
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
	Void
· Flammable liquids	Void Void
· Flammable solids	roiu
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· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamma	ıble	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
Desensitised explosives	Void	

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.

 \cdot 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 hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Harmful if swallowed.

· LD/LC50 values relevant for classification:

3470-98-2 1-Butylpyrrolidin-2-one

Oral LD50 300-2,000 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rat)

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic	toxicity:
11900000	ionery.

-	•	
3470-98-2	1-Butylpyrrolidin-2-one	

EC50 (72h) >160 mg/l (pseudokirchneriella subcapitata)

NOEC 82 mg/l/33 d (Pimephales promelas)

EC50 >100 mg/kg /48h (Daphnia magna)

LC50 (96h) > 100 mg/l (Oncorhynchus mykiss)

• 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.
- 12.5 Results of PBT and vPvB assessment

• *PBT:* Not applicable.

• **vPvB:** Not applicable.

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· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

• 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.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

• Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.*

• *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, 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 Maritime transport in bulk according to IM instruments	O 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.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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. H315 Causes skin irritation.

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H319 Causes serious eye irritation.
· Abbreviations and acronyms:
ADR: Accord relatif au transport international 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 (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
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
* * Data compared to the previous version altered.
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