

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

Printing date 28.09.2021

Version number 9

Revision: 28.09.2021

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

- **1.1 Product identifier**
- **Trade name:** Crystale Dishwasher Cleaner
- **UFI:** TRTE-5MDH-9Q30-06CY
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:**
 - Deliming agent
 - Machine dish washing agent
 - Cleaning material/ Detergent
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - UK
 - Purity Global Ltd.
 - HU1 4BG. UK
 - www.purityglobal.co.uk
 - Careline +44 (0) 1482 488010
- **EU**
 - Purity Global Ltd.
 - Moorfuhrweg 11
 - 22301 Hamburg, Germany
 - info@globalcosmed.de
 - sekretariat.jawor@globalcosmed.eu
- **1.4 Emergency telephone number:**
 - UK
 - Careline +44 1482 488010
- **EU**
 - +49 40 64 60 429 - 0 (Mo. to Fr. 8:00 - 17:00) or 112

SECTION 2: Hazards identification

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



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 CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning

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· **Hazard statements**

H319 Causes serious eye irritation.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear eye 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.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

CAS: 5949-29-1 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42	CITRIC ACID (Citric Acid Monohydrate) ⚠ Eye Irrit. 2, H319	≥10- <15%
CAS: 15763-76-5 EINECS: 239-854-6 Reg.nr.: 01-2119489411-37	SODIUM CUMENE SULFONATE (sodium p-cumenesulphonate) ⚠ Eye Irrit. 2, H319	≥1- <5%
CAS: 3811-73-2 EINECS: 223-296-5 Reg.nr.: 01-2119493385-28	SODIUM PYRITHIONE (Pyridine-2-thiol 1-oxide, sodium salt) ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	≥0.0025- <0.025%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

non-ionic surfactants	<5%
perfumes, preservation agents (SODIUM PYRITHIONE, BENZISOTHIAZOLINONE)	

· **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**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Rinse with warm water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

• Eye contact: moderate to severe eye irritation (burning, tearing, swelling).

• Inhalation: may irritate mucous membranes and respiratory system (cough, burning throat, shortness of breath).

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- **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.
Water spray
- **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**
Avoid skin and eye contact.
Slipping hazard due to leaking product.
- **6.2 Environmental precautions:**
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, acid binders, universal binders, sawdust).
- **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.
Keep away from frost and heat.
- **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:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store and transport uprightly.
- **Storage class:** 12
- **7.3 Specific end use(s)**
The product is a cleaning product for household use. Observe the warnings and instructions on the packaging.

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SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further relevant information available.
- **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**

15763-76-5 SODIUM CUMENE SULFONATE (sodium p-cumenesulphonate)

Oral	DNEL - long-term, oral, systemic effect	3.8 mg/kg (consumer)
Dermal	DNEL - long-term, dermal, systemic effect	136.25 mg/kg (worker)
		68.1 mg/kg (consumer)
	DNEL - long-term, dermal, local effect	96 µg/cm ² (worker)
Inhalative		48 µg/cm ² (consumer)
	DNEL - long-term, inhaled, systemic effect	26.9 mg/m ³ (worker)

· **PNECs**

5949-29-1 CITRIC ACID (Citric Acid Monohydrate)

PNEC water (fresh water)	440 µg/l
PNEC water (marine water)	44 µg/l
PNEC sediment (fresh water)	34.6 mg/kg
PNEC sediment (marine water)	3.46 mg/kg
PNEC (soil)	33.1 mg/kg
PNEC (sewage plant)	>1,000 mg/l

15763-76-5 SODIUM CUMENE SULFONATE (sodium p-cumenesulphonate)

PNEC water (fresh water)	230 µg/l
PNEC water (marine water)	23 µg/l
PNEC water (intermittent)	2,300 µg/l
PNEC sediment (fresh water)	0.862 mg/kg
PNEC sediment (marine water)	0.0862 mg/kg
PNEC (soil)	0.037 mg/kg
PNEC (sewage plant)	100 mg/l

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

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

Due to missing tests, it is not possible to give exact information about the glove material for the product. Recommended is therefore:

Only use chemical-protective gloves with CE-labelling of category III.

- **Material of gloves**
Recommended for contact with the product are protective gloves of chemical protection category III made of special nitrile (material thickness > 0.1 mm). Protective gloves should be tested for workplace specific

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suitability (e.g. mechanical and thermal resistance, antistatic, etc.). For first signs of wear, the protective gloves must be replaced immediately.

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.

Penetration time > 480 minutes recommended. Named penetration times can be significantly shorter in practice.

· **Eye protection:**



Tightly sealed goggles

· **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.

Avoid contact with the eyes and skin.

· **Limitation and supervision of exposure into the environment**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid
Colour: Colourless

· **Odour:** Light

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** >2

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

· **Flash point:** Not applicable.
Aqueous preparation. No flashpoint up to 100 °C.

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

· **Decomposition temperature:** Not determined.

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

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

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· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	~23 hPa
· Density at 20 °C:	~1.059 g/cm ³
· 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:	<50 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
Water:	83.7 %
· 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** Product is stable.
- **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** Keep away from frost and heat.
- **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:**
5949-29-1 CITRIC ACID (Citric Acid Monohydrate)

Oral	LD50	5,400 mg/kg (mouse) (OECD TG 401)
		>3,000 mg/kg (rat)

Dermal	LD50	>2,000 mg/kg (rat) (OECD TG 402)
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15763-76-5 SODIUM CUMENE SULFONATE (sodium p-cumenesulphonate)

Oral	LD50	>7,000 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rabbit)
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Inhalative	LC50/4 h	6.41 mg/l (rat)
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3811-73-2 SODIUM PYRITHIONE (Pyridine-2-thiol 1-oxide, sodium salt)

Oral	LD50	1,208 mg/kg (rat)
Dermal	LD50	1,800 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **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:**
Quantitative information on the ecological impact of the product is not available.

5949-29-1 CITRIC ACID (Citric Acid Monohydrate)

Toxicity (fish): LC50	440-760 mg/l, 96 h (Leuciscus idus)
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3811-73-2 SODIUM PYRITHIONE (Pyridine-2-thiol 1-oxide, sodium salt)

Toxicity (fish): LC50	0.0066 mg/l, 96 h (Oncorhynchus mykiss)
Toxicity (Daphnia): EC50	0.022 mg/l, 48 h (Daphnia magna)
Toxicity (Algae): EC50	0.46 mg/l, 72 h (Selenastrum capricornutum)
Toxicity chronic (Algae): NOEC	0.08 mg/l, 72 h (Selenastrum capricornutum) (OECD TG 201)

- **12.2 Persistence and degradability**
No information for the product available. The contained surfactants are readily biodegradable.

5949-29-1 CITRIC ACID (Citric Acid Monohydrate)

Readily biodegradable	97 % (28 d) (OECD TG 301 B)
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15763-76-5 SODIUM CUMENE SULFONATE (sodium p-cumenesulphonate)

Readily biodegradable	100 % (OECD TG 301 B)
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3811-73-2 SODIUM PYRITHIONE (Pyridine-2-thiol 1-oxide, sodium salt)

Readily biodegradable	>70 % (OECD TG 301 B)
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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **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.

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- **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**
Empty the container thoroughly.
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
- **Waste disposal key:**
20 01 29
15 01 10
- **Uncleaned packaging:**
- **Recommendation:**
Non contaminated packagings may be recycled.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Class | Void |
| · 14.4 Packing group | Void |
| · 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.

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- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on our present knowledge. In particular, the information derive the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. The information does not constitute any guarantee of product quality and/or quality features.

· Relevant phrases

- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

· Training hints

- When manufacturing and distributing the product: information and instruction in handling, safety and hygiene.
- When transporting the product: information and instruction in ADR.
- **Classification according to Regulation (EC) No 1272/2008** Calculation method

· Department issuing SDS:

Regulatory Affairs
FR

· Contact:

reg@globalcosmed.eu
info@globalcosmed.de
sekretariat@globalcosmed.eu

· Abbreviations and acronyms:

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
MARPOL: International Convention for the Prevention of Marine Pollution from Ships (marine pollution)
IBC: Intermediate Bulk Container
ECHA: European Chemicals Agency
IVIS: In Vitro Irritancy Score
CLP regulation: "Classification, Labelling and Packaging" regulation, regulation (EC) Nr. 1272/2008
REACH (regulation): "Registration, Evaluation, Authorisation and Restriction of Chemicals" regulation, regulation (EC) Nr. 1907/2006
CE: Conformité Européenne (European Conformity)
Reg.nr.: Registration number
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 (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
EC50: Effective concentration, 50 percent
WEL: Workplace Exposure Limits

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*NOAEL (NOAEC): No observed adverse effect level (concentration)**NOEL (NOEC): No observed effect level (concentration)**NLP: No-Longer-Polymer**OECD: Organisation for Economic Co-operation and Development**TG: Test Guideline**BCOP: Bovine Corneal Opacity and Permeability**Acute Tox. 4: Acute toxicity – Category 4**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**** Data compared to the previous version altered.**

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