



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.06.2015

Version number 4

Revision: 08.06.2015

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

- 1.1 Product identifier
- Trade name: **KRISTAL Aqua Degreaser 3000**
- Article number: 3000
- 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 Degreaser
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Kristal Coatings B.V.
Platinawerf 22B
6641 TL Beuningen - Holland
Tel: 0031 24 67 526 36
Fax: 0031 24 67 533 60
- Further information obtainable from: Product safety department: info@kristalcoatings.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 product 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
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves / eye protection.
- Additional information:
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:

CAS: 111-76-2	2-butoxyethanol	2,5-10%
EINECS: 203-905-0	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2,	
Reg.nr.: 01-2119475108-36	H319	
	05-2114685655-33	
- Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
Remove contactlenses.

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- 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: 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 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 Not required.
- 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).
- 6.4 Reference to other sections
No dangerous substances are released.
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.
Further information about storage conditions: Protect from frost.
- 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/m³, 50 ppm
Long-term value: 98 mg/m³, 20 ppm
Skin

- DNELs

111-76-2 2-butoxyethanol

Dermal	Acute - short-term exposure - systemic effects	89 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	75 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - local effects	246 mg/m ³ (worker)
	Acute - short-term exposure - systemic effects	663 mg/m ³ (worker)
	Long-term exposure - systemic effects	98 mg/m ³ (worker)

- PNECs

111-76-2 2-butoxyethanol

PNEC 463 mg/l (STP)
8,8 mg/l (aqua, freshwater)
9,1 mg/l (aqua, intermittent releases)

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0,88 mg/l (aqua, marine water)
 3,46 mg/kg (sediment marine water)
 34,6 mg/kg (sediment freshwater)

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not necessary if room is well-ventilated.

· **Protection of hands:**

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**

Fluorocarbon rubber gloves (Viton)

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**

Thickness of the gloves ≥ 0.84 mm (2-butoxyethanol)

Value for the permeation: Level ≥ 480 min (2-butoxyethanol)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **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: Fluid

Colour: Clear

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 7

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C

· **Flash point:** > 63 °C

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

· **Ignition temperature:** 240 °C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure at 20 °C:** 23 hPa

· **Density at 20 °C:** 0,99 g/cm³

· **Relative density:** Not determined.

· **Vapour density:** Not determined.

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- Evaporation rate Not determined.
- Solubility in / Miscibility with water: Slightly soluble.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
 - Dynamic at 20 °C: 1 mPas
 - Kinematic: Not determined.
- Solvent content:
 - Organic solvents: 9,1 %
 - VOC (EC) 9,09 %
- 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 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.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
- LD/LC50 values relevant for classification:
 - 111-76-2 2-butoxyethanol**
 - Oral LD50 >300-2000 mg/kg (rat)
 - Dermal LD50 >1000-2000 mg/kg (rat)
- Primary irritant effect:
- Skin corrosion/irritation No irritant effect.
- Serious eye damage/irritation No irritating effect.
- Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information:
 - The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
 - When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:
 - 111-76-2 2-butoxyethanol**
 - EC50/48h 1550 mg/l (daphnia magna)
 - LC50/96h 1474 mg/l (oncorhynchus mykiss)
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential
 - 111-76-2 2-butoxyethanol**
 - BCF <100 (l)
 - LogPow 0,81 (l)
- 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.
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SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
 - Recommendation Smaller quantities can be disposed of with household waste.
 - European waste catalogue
 - 16 10 01* aqueous liquid wastes containing dangerous substances
 - Uncleaned packaging:
 - Recommendation: Disposal must be made according to official regulations.
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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:
 - Marine pollutant:
 - No
 - 14.6 Special precautions for user
 - Not applicable.
 - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 - Not applicable.
 - UN "Model Regulation":
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-

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.
 - National regulations:
 - Other regulations, limitations and prohibitive regulations
 - The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
 - 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
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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.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- Contact: Dhr. B. Peters
- Abbreviations and acronyms:
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- 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

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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)
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
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

— EU —