

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

- **1.1 Product identifier**
- **Trade name: BioClean Dragon**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Technical function** Cleaning agent
- **Application of the substance / the mixture**
 Industrial cleaner
 Neutral cleaner
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Apex Group of Companies
 Apex Europe B.V.
 Metaalweg 8
 5527 AK Hapert Nederland
 Tel: + 31 (0) 497 36 11 11
 Fax: + 31 (0) 497 36 11 22
 E-mail: info@apex-europe.com
 Website: www.apex-groupofcompanies.com
- **Further information obtainable from:**
 Safety department.
 Tel: + 61 3 9535 9777
 Fax: +61 3 9535 9780

National Poison Centre

België (Belgique) Centre Antipoisons-Antigifcentrum 070 245 245

Česká Republika (Czech Republic) Toxikologické informační středisko 0 22 49 192 93

Danmark (Denmark) Poison Information Center 0 82 12 12 12

Deutschland (Germany) Clinical Toxicology and Berlin Poison Information Centre 0 30 192 40

España (Spain) Servicio de Información Toxicológica 091 562 04 20

France Centre antipoison et de toxicovigilance de Paris 01 40 05 48 48

Ireland Poisons Information Centre of Ireland 01 809 2166

Italia (Italy) Centro Antiveneni Rome 06 499 70 698

Luxembourg Centre Antipoison 8002 5500

Magyarország (Hungary) Health Toxicological Information Service 080 20 11 99

Nederland Nationaal Vergiften Informatie Centrum 0 30 274 88 88 (Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen)

Norge (Norway) Department for Poisons Information 022 59 13 00

Österreich (Austria) Vergiftungsinformationszentrale 01 406 43 43

Polska (Poland) Centrum Toksykologii 022 619 66 54

Portugal Centro de Informação Antivenenos 021 330 3284

România (Romania) Spitalul de Urgenta Floreasca 021 230 8000

Slovenská republika (Slovakia) National Toxicological Information Center 02 54 774 166

Schweiz (Swiss) Toxicological Information Centre 0 44 251 51 51

Sverige (Sweden) Giftinformationscentralen (Swedish Poisons Information Centre) 08 33 12 31

Suomi (Finland) Nødnummer Myrkytystietokeskus 09-471977

United Kingdom National Poison Centre – Poison Information Service 111

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.

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Hazard pictograms


GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves / 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 Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	PPG-2 METHYL ETHER substance with a Community workplace exposure limit	30-50%
CAS: 123-42-2 EINECS: 204-626-7 Reg.nr.: 01-2119473975-21	Diacetone alcohol ⚠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	15-30%
CAS: 26183-52-8 Polymer Reg.nr.: Exempted [4]	DECETH-8 ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	5-15%

Additional information:

For the wording of the listed risk phrases refer to section 16. Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

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: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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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:**
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** Not required.
- **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**
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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Protect from frost.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **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:**

34590-94-8 PPG-2 METHYL ETHER

IOELV	Long-term value: 308 mg/m ³ , 50 ppm
	Skin

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

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- **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 eyes.
- **Respiratory protection:**



During operations which cause the formation of vapor / mist / aerosol, use a half face mask according NEN140, or a full face mask according EN 136:1998/C1:2000.

- **Recommended filter device for short term use: ABEK/P2**
- **Protection of hands:**



Preventive skin protection by use of gloves is recommended.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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. Suitability (penetration time, material thickness) for a specific workplace should be discussed with the manufacturer of the protective gloves.

- **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.
- **For the permanent contact gloves made of the following materials are suitable:**
 Nitrile rubber: Penetration time >480 min - Recommended thickness: 0,4 mm
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
 Nitrile rubber. Penetration time 30 min - Recommended thickness: 0,13 mm
- **As protection from splashes gloves made of the following materials are suitable:**
 PVC (EN374)
 Nitrile rubber: 0.11 mm (EN374)
- **Eye protection:**



Safetyglasses

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic

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· Odour threshold:	Not determined.
· pH-value at 20 °C:	7
· Change in condition Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C
· Flash point (CCMP):	94 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	200 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	14 Vol %
· Vapour pressure at 20 °C:	23 hPa
· Density at 20 °C:	0.95 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:	Not determined.
Kinematic:	Not determined.
VOC (EC)	67.10 %
· 9.2 Other information	Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.

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.
- **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.

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- **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:** No further relevant information available.
- **12.2 Persistence and degradability**
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
- **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.
Danger to drinking water if even small quantities leak into the ground.
- **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**
-  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
The EC waste catalog number (EAC) can only be determined after the type of use by the end-user is known for this product.
- **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**
- **ADR/RID/ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**
- **ADR/RID/ADN, IMDG, IATA** Void

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|--|------|
| · 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN, IMDG, IATA | |
| · Class | Void |
| · ADN/R Class: | Void |
| | - |

- | | |
|----------------------------------|------|
| · 14.4 Packing group | |
| · ADR/RID/ADN, IMDG, IATA | Void |

- | | |
|--------------------------------------|----|
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |

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|--|-----------------|
| · 14.6 Special precautions for user | Not applicable. |
|--|-----------------|

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|--|-----------------|
| · 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**
 All components have been accessed in the Australian Inventory of chemical substances (AICS).
- **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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|---|
| · Regulation (EC) No 648/2004 on detergents / Labelling for contents |
|---|

non-ionic surfactants	≥5 - <15%
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- **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.

This Safety Data Sheet is exclusively meant for industrial/professional use.

- **Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- **Department issuing SDS:** Product safety department.

- **Contact:** J. Graat

- **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)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

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

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· Sources

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No.1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet.

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

EU