

CARECLEAN GP ENVIRO

A water based general purpose degreaser for engine room and deck cleaning

- Contains no petroleum solvents, non-flammable.
- Biodegradable, non-toxic, waste water will split into an oil/water phase.
- Clean, fresh odor.
- Retains strong degreasing properties when diluted.
- Leaves no film residues on cleaned surfaces.
- Economical in use.
- Suitable on most common metals and coatings.
- Suitable for use in conjunction with oil water separators.

Application

Careclean GP Enviro is used for engine rooms, decks, bulkheads and accommodation.

Directions for use

For heavy contamination

Careclean GP Enviro is applied by spray undiluted and left for 20-60 minutes. It must then be hosed off with a powerful waterjet, whilst brushing the surfaces.

General Cleaning

Careclean GP Enviro can be diluted to a 2% solution in water for light cleaning. It must be allowed to soak for 1-15 minutes before rinsing with a waterjet. The effectiveness of the product is increased by using water at a temperature of 20° C to 60° C for dilution and rinsing.

Properties

Soluble in water. Pale yellow colored liquid with a fresh odor.

Specific gravity (20° C)	: 0.995
Flash point (PM CC)	: None to boiling (100° C)
pH (1% solution)	: 9.1

For detailed information on safety and health, please refer to Material Safety Data Sheet and / or Product label.

The details of our products are given completely free of undertaking. Since their application lies outside our control we cannot accept any liability for the results.

Material Safety Data Sheet

According to 2001/58/EC

Printing date: 08.02.2006

Reviewed on: 08.02.2006

1 Identification of substance:

* **Product details:**

* **Trade name:** Careclean GP Enviro

* **Application of the substance / the preparation** All-purpose cleaner

* **Manufacturer/Supplier:**

Marine Care
Mozartlaan 3
3144 NA Maassluis
The Netherlands

Tel.: +31 - (0)10 29 50 342
Fax : +31 - (0)10 29 50 345

* **Informing department:**

Industrial Safety Department
Laboratory

* **Emergency information:**

MARINE CARE






Tel.: +31 - (0)10 29 50 342
Fax : +31 - (0)10 29 50 345

2 Composition/Data on components:

* **Chemical characterization**

* **Description:** Mixture of the substances listed below with harmless additions.

* **Dangerous components:**

CAS: 26836-07-7 EINECS: 248-024-2	dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)  Xn; R 22	5-10%
CAS: 69011-36-5	Isotridecanol, geëthoxyleerd (6 - 10 mol EO)  Xn; R 22-41	< 7.0%
CAS: 138-86-3 EINECS: 205-341-0	p-mentha-1,8(9)-diene  Xi,  N; R 10-38-43-50/53	2.5-5%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol  Xn; R 20/21/22-36/38	< 2.0%

* **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

* **Hazard designation:**



Xi Irritant
N Dangerous for the environment

* **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36 Irritating to eyes.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

* **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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Trade name: Careclean GP Enviro

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4 First aid measures

* General information



Instantly remove any clothing soiled by the product.

* After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

* After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

* After eye contact

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

* After swallowing

Rinse out mouth and then drink plenty of water.

5 Fire fighting measures

* Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet.

Use fire fighting measures that suit the environment.

* Special hazards caused by the material, its products of combustion or resulting gases:

Can be released in case of fire

Carbon monoxide (CO)

* Protective equipment: No special measures required.

* Additional information

Cool endangered containers with water spray jet.

6 Accidental release measures

* Person-related safety precautions: Not required.

* Measures for environmental protection:

Inform respective authorities in case product reaches water or sewage system.

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

* Measures for cleaning/collecting:

Absorb with liquid-binding material (Oil Adsorbent, sand, diatomite, acid binders, universal binders).

Ensure adequate ventilation.

Clean the accident area carefully; suitable cleaners are:

warm water

warm water and cleaning agent

7 Handling and storage

* Handling

* Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

When diluting, always stir the product into standing water.

* Information about protection against explosions and fires: No special measures required.

* Storage

* Requirements to be met by storerooms and containers: 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.

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Protect from heat and direct sunlight.

8 Exposure controls and personal protection

* **Additional information about design of technical systems:** No further data; see item 7.

* **Components with limit values that require monitoring at the workplace:**

111-76-2 2-butoxyethanol

WEL ()	Short-term value: 50 ppm Long-term value: 25 ppm
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* **Additional information:** The lists that were valid during the compilation were used as basis.

* **Personal protective equipment**

* **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

* **Breathing equipment:** Not required.

* **Protection of hands:**

Plastic gloves



Protective gloves.

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.

Nitrile rubber, NBR

* **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.

* **Eye protection:**



Tightly sealed safety glasses.

9 Physical and chemical properties:

* **General Information**

* Form:	Fluid
* Colour:	Yellow

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* Odour:	Pleasant
* Change in condition	
* Melting point/Melting range:	Not determined
* Boiling point/Boiling range:	103°C
* Flash point:	> 100°C
* Self-inflammability:	Product is not selfigniting.
* Danger of explosion:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
* Density at 20°C	0.995 g/cm ³
* Solubility in / Miscibility with	
* Water:	Fully miscible
* pH-value (10 g/l) at 20°C:	9.3 - 9.7
* Segregation coefficient (n-octanol/water):	Not applicable.
* Viscosity:	
* dynamic at 20°C:	10 mPas
* Solvent content:	
* Organic solvents:	< 10 %

10 Stability and reactivity

- * **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- * **Dangerous reactions** No dangerous reactions known
- * **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

* **Acute toxicity:**

* **LD/LC50 values that are relevant for classification:**

69011-36-5 Isotridecanol, geëthoxyleerd (6 - 10 mol EO)

Oral	LD50	200 - 2000 mg/kg (1)
Dermal	LD50	> 2000 mg/kg (1)

111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (Rat)
Dermal	LD50	400 mg/kg (Rabbit)

* **Primary irritant effect:**

 * **on the skin:** No irritant effect.

 * **on the eye:** Irritant effect.

* **Sensitization:** Sensitization possible by skin contact.

* **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information:

- * **Information about elimination (persistence and degradability):**
- * **Other information:** The product is easily biodegradable.

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*** Ecotoxicological effects:***** Aquatic toxicity:****111-76-2 2-butoxyethanol**

EC 50	> 100 (7d) mg/l (Algae)
	> 100 (24 h) mg/l (Daphnia)
	> 100 (96 h) mg/l (Fish)

*** Remark:** Toxic for fish*** General notes:**

In accordance with the requirements of the RVO on the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

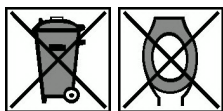
Danger to drinking water if even small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

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.

Toxic for aquatic organisms

13 Disposal considerations

*** Product:***** Recommendation**

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

Contact manufacturer for recycling information.

*** Uncleaned packagings:**

*** Recommendation:** Packaging can be reused or recycled after cleaning.

*** Recommended cleaning agent:** Water.

14 Transport information

*** Land transport ADR/RID (cross-border)**

*** ADR/RID-GGVSE Class:** 9 Miscellaneous dangerous substances and articles.

*** Kemler Number:** 90

*** UN-Number:** 3082

*** Packaging group:** III

*** Label:** 9

*** Designation of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE)

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Reviewed on: 08.02.2006

Trade name: Careclean GP Enviro

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* Maritime transport IMDG:



* **IMDG Class:** 9
 * **UN Number:** 3082
 * **Label** 9
 * **Packaging group:** III
 * **EMS Number:** F-A,S-F
 * **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE)

* Air transport ICAO-TI and IATA-DGR:



* **ICAO/IATA Class:** 9
 * **UN/ID Number:** 3082
 * **Label** 9
 * **Packaging group:** III
 * **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE)

15 Regulatory information

* Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

* Code letter and hazard designation of product:



Xi Irritant
 N Dangerous for the environment

* Hazard-determining components of labelling:

p-mentha-1,8(9)-diene

* Risk phrases:

36 Irritating to eyes.
 43 May cause sensitisation by skin contact.
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

* Safety phrases:

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
 24/25 Avoid contact with skin and eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 37/39 Wear suitable gloves and eye/face protection.
 57 Use appropriate container to avoid environmental contamination.
 60 This material and its container must be disposed of as hazardous waste.

* National regulations

* Technical instructions (air):

Class	Share in %
NK	< 7,0

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Trade name: Careclean GP Enviro*(Contd. of page 6)**** Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The chapters that have been updated are marked with an asterix (*).

*** Relevant R-phrases**

- 10 Flammable.
- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 22 Harmful if swallowed.
- 36/38 Irritating to eyes and skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*** Department issuing data specification sheet:** Quality, Environment and Safety Department*** Contact:** Q/E/S Manager**** Data compared to the previous version altered.**

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