



# Dulon Predulon

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

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Version: 4.0

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

#### 1.1. Product identifier

Product form : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/preparation : Degreasing product  
Agent of cleaning

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Dulon Marine  
Energieweg 12  
2382 NJ Zoeterwoude - The Netherlands  
T +31 (0)71 3319 288  
info@dulonmarine.com

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	(CAS No.) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0	1 - 2,5	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315

Full text of R-, H- and EUH-phrases: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Assure fresh air breathing.
- First-aid measures after skin contact : Take off contaminated clothes, wash skin with plenty of water or have a shower (during minimum 15 minutes) and if necessary take medical advice.
- First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Take victim to a doctor if irritation persists.
- First-aid measures after ingestion : Do not induce vomiting. On ingestion in large quantities : Take medical advice immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Water fog. Foam. Carbon dioxide (CO<sub>2</sub>).

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible / flammable. Under fire conditions closed containers may rupture or explode.

#### 5.3. Advice for firefighters

No additional information available

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

Protective equipment : Protective clothing. Protective gloves. Safety glasses.

#### 6.2. Environmental precautions

Dilute with plenty of water.

#### 6.3. Methods and material for containment and cleaning up

For containment : Absorb the product onto porous material.

#### 6.4. Reference to other sections

Reference to other sections (8, 13).

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Flush residue with large amounts of water.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in well ventilated area. Keep out of frost.

#### 7.3. Specific end use(s)

Agent of cleaning. Degreasing product.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.
- Hand protection : Chemical resistant gloves (according to European standard NF EN 374 or equivalent).
- Eye protection : Safety glasses.
- Skin and body protection : Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product.

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Respiratory protection	: No respiratory protection needed under normal use conditions.
Other information	: Keep away from food, drink and animal feeding stuffs. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not breathe vapours. Do not breathe gas. Avoid contact with skin and eyes.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear
Colour	: transparent
Odour	: typical
Odour threshold	: No data available
pH	: ~ 11,0
Relative evaporation rate (butylacetate=1)	: = H2O
Melting point	: No data available
Freezing point	: ~ -10 °C
Boiling point	: ~ 100 °C
Flash point	: Not flammable
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: = H2O
Relative vapour density at 20 °C	: = H2O
Relative density	: +/- 1 (20°C)
Solubility	: completely miscible
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: = H2O
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosion limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

To our knowledge, the product does not present any particular risk, under normal conditions of use.

#### 10.5. Incompatible materials

To our knowledge, the product does not present any particular risk, under normal conditions of use.

#### 10.6. Hazardous decomposition products

Not applicable.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
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Dulon Predulon	
LD50 oral rat	> 2000 mg/kg
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
ATE oral	500,00000 mg/kg
ATE dermal	1100,00000 mg/kg

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### 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

ATE dust/mist	1,50000 mg/l/4h
Skin corrosion/irritation	: Not classified pH: ~ 11,0
Serious eye damage/irritation	: Not classified pH: ~ 11,0
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: On ingestion : Nausea. Vomiting. Damage to kidneys and liver.
Other information	: CMR. : No chronic health hazards are likely for this material.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

#### Dulon Predulon

Persistence and degradability	Blend of surfactants. According to EC criteria, this product is classified as: Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### Dulon Predulon

Bioaccumulative potential	Low bioaccumulation potential.
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### 12.4. Mobility in soil

#### Dulon Predulon

Ecology - soil	(No data available specific to the product).
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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Collect all waste in suitable and labelled containers and dispose according to local legislation. After cleaning, flush traces away with water. Can be disposed as waste water according to local regulation.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

No dangerous good in sense of transport regulations.

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

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### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollutant category : Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Other information : REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of EUH-phrases::

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*