



# Dulon Predulon

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 16-10-2012

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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<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road<br>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<br>(EC no) 203-905-0<br>(EC index no) 603-014-00-0 | 1 - 2,5 | Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>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 |
|----------------|------------------|

| 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<br>pH: ~ 11,0                                   |
| Serious eye damage/irritation                       | : Not classified<br>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

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|                               |                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------|
| Persistence and degradability | Blend of surfactants. According to EC criteria, this product is classified as: Readily biodegradable. |
|-------------------------------|-------------------------------------------------------------------------------------------------------|

### 12.3. Bioaccumulative potential

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|                           |                                |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Low bioaccumulation potential. |
|---------------------------|--------------------------------|

### 12.4. Mobility in soil

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|                |                                              |
|----------------|----------------------------------------------|
| Ecology - soil | (No data available specific to the product). |
|----------------|----------------------------------------------|

### 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 / ADN / 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.*