

Product **DUOCLEAN**  
 Revision Date 06/08/2015  
 Revision 1



## SECTION 1: IDENTIFICATION

### 1.1 Product identifier

**Product Name** DUOCLEAN R.I.B. Cleaner  
**Synonyms, Trade Names** No Information Available

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

**Identifier Uses** Easy to use cleaner, especially effective on GRP and both Hypalon and PVC fabrics.  
**Uses advised against**

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

**Supplier** Polymarine Ltd.  
 Chester House  
 The Dingle  
 Colwyn Bay  
 CONWY, LL29 7SN  
 Tel: 01492 583322  
**Contact Person** info@polymarine.com

### 1.4 Emergency telephone number

**Emergency Telephone** 01492 583322 (Office Hours Only)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification (EC 1272/2008)**  
 Physical and Chemical Hazards Not classified  
 Human Health Skin Irrit.2 - H315, Eye Irrit.2A - H319  
 Environment Not classified

### 2.2 Label elements

**Contains** sodium hydroxide  
 Alcohol C9-11, ethoxylated

**Detergent Labelling:** <5% Anionic Surfactant

**Label in Accordance With (EC) No. 1272/2008**



**Signal Word** Warning

**Hazard Statements** H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

**Precautionary Statements** P280 Wear protective gloves/ protective clothing/eye protection/face protection.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/physician

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**SECTION 3: Composition/Information on Ingredients**


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**3.2 Mixtures**

Name	Product Identifier	GHS Classification	%
sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5	Skin Corr. 1A - H314, Eye Dam. 1 - H318, Me. Corr 1 - H290	0-1%
tetrapotassium pyrophosphate	CAS-No.: 7320-34-5 EC No.: 230-785-7	Eye Irrit.2A - H319	1-10%
Alcohol C9-11, ethoxylated	CAS-No.: 68439-46-3 EC No.:	Eye Dam. 1 - H318	1-10%

The Full Text for all Hazard Statements are Displayed in Section 16.

**Composition Comments**


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**SECTION 4: FIRST AID MEASURES**


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**4.1 Description of first aid measures**

<b>General Information</b>	General first aid, rest, warmth and fresh air.
<b>Inhalation</b>	If affected by vapour, remove to fresh air.
<b>Ingestion</b>	Ingestion is not believed to be a likely route of exposure.
<b>Skin contact</b>	If this product contacts the skin, immediately flush the affected area with large amount of water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.
<b>Eye contact</b>	Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>General Information</b>	No information available
<b>Inhalation</b>	No specific symptoms noted.
<b>Ingestion</b>	No specific symptoms noted.
<b>Skin contact</b>	Skin irritation. Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause serious eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes To The Physician</b>	Treat Symptomatically.
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**SECTION 5: Firefighting Measures**


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**5.1 Extinguishing media**

<b>Extinguishing Media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media</b>	No information available

**5.2 Special hazards arising from the substance or mixture**

<b>Hazardous combustion products</b>	None under normal conditions.
<b>Unusual Fire &amp; Explosion Hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific hazards</b>	No information available

**5.3 Advice for firefighters**

<b>Special Fire Fighting Procedures</b>	Cool containers exposed to flames with water from the side, until water well after the fire is out. Move container from the fire area if it can be done without risk. Use water spray to reduce vapours.
<b>Protective equipment for fire-fighters</b>	Wear full protective clothing and breathing apparatus if there is a risk of exposure to smoke or fumes.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Use personal protection recommended in Section 8. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. . Ensure adequate ventilation.

**6.2 Environmental precautions****Environmental Precautions**

Keep run-off water out of sewers and water sources. Dike for water control. If water pollution occurs, notify appropriate authorities.

**Spill Clean Up Methods**

This product should not be allowed into surface water drainage. Where there is a risk of this happening, neutralize spill with dilute acid. Prevent the spill entering ditches or rivers by the use of sand or earth.

**6.4 Reference to other sections****Reference to other sections**

For waste disposal, see section 13.

**SECTION 7: Handling and Storage****7.1 Precautions for Safe Handling****Handling**

Avoid skin and eye contact. Ventilate well. Use approved respirator in confined or unventilated areas.

**7.2 Conditions for safe storage, including any incompatibilities****Storage Precautions**

Keep in cool dry, ventilated storage and closed.

**Storage Class**

No information available

**7.3 Specific end use(s)****Specific End Use(s)**

The identified uses are in section 1 of this Safety Data Sheet.

**Usage Description**

Use only according to directions.

**SECTION 8: Exposure Controls/Personal Protection****8.1 Control Parameters**

Component	STD	TWA (8 Hrs)	STEL (15mins)	Notes
sodium hydroxide	OEL		2mg/m3	

OEL = Occupational Exposure Limits

**Ingredient Comments**

Ireland, Occupational Exposure Limits 2011

**8.2 Exposure Controls****Protective Equipment**
**Engineering Measures**  
**Respiratory Equipment**  
**Hand Protection**

Provide adequate general and local exhaust ventilation. Not normally required if good ventilation is maintained. Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness).

**Eye Protection**

Wear safety goggles in accordance with EN166. Eye protection equipment should be tested

**Other Protection  
Hygiene Measures**

and approved according to regulations applicable, like NIOSH (US) or EN 166 (EU).  
Provide eyewash solution and water proof overalls if necessary.  
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

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**SECTION 9: Physical and Chemical Properties**

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**9.1 Information on Basic Physical and Chemical Properties**

<b>Appearance</b>	Liquid.
<b>Colour</b>	Clear.
<b>Odour</b>	No Information available.
<b>Odour Threshold - Lower</b>	No Information available.
<b>Odour Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	11.5
<b>Melting point</b>	No Information available.
<b>Initial boiling point and boiling range</b>	No Information available.
<b>Flash point</b>	No Information available.
<b>Evaporation rate</b>	No Information available.
<b>Flammability State</b>	No Information available.
<b>Flammability Limit - Lower(%)</b>	No Information available.
<b>Flammability Limit - Upper(%)</b>	No Information available.
<b>Vapour pressure</b>	No Information available.
<b>Vapour Density (air=1)</b>	No Information available.
<b>Relative density</b>	1.050 @ 20.0 °C
<b>Bulk Density</b>	No Information available.
<b>Solubility</b>	No Information available.
<b>Decomposition temperature</b>	No Information available.
<b>Partition coefficient; n-octanol/water</b>	No Information available.
<b>Auto Ignition Temperature (°C)</b>	No Information available.
<b>Viscosity</b>	No Information available.
<b>Explosive Properties</b>	No information available.
<b>Oxidising properties</b>	No Information available.

**9.2 Other Information**

<b>Molecular Weight</b>	No Information available.
<b>Volatile Organic Compound</b>	No Information available.

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**SECTION 10: Stability and Reactivity**

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**10.1 Reactivity**

**Reactivity** Reactions may occur with strong acids.

**10.2 Chemical Stability**

**Stability** No particular stability concerns.

**10.3 Possibility of Hazardous Reactions**

**Hazardous Reactions** None known.

**10.4 Conditions to Avoid**

**Conditions to Avoid** No specific conditions to avoid are noted.

**10.5 Incompatible Materials**

**Materials to Avoid** Keep away from strong acids.

**10.6 Hazardous Decomposition Products**

**Hazardous Decomposition Products** No hazardous decomposition products.

**SECTION 11: Toxicological Information****11.1 Information on toxicological effects**

**Toxicological Information** No Information available.

**Acute Toxicity (Oral LD50)** No Information available.

**Acute Toxicity (Dermal LD50)** No Information available.

**Acute Toxicity (Inhalation LD50)** No Information available.

**Serious Eye Damage/Irritation** None to slight.

**Respiratory Sensitisation** No Information available.

**Skin Sensitisation** No Information available.

**Germ Cell Mutagenicity:**

**Genotoxicity - In Vitro**

**Genotoxicity - In Vivo**

**Carcinogenicity** No Information available.

**Specific Target Organ Toxicity - Single Exposure:**

**STOT - Single Exposure** Not applicable.

**Specific Target Organ Toxicity - Repeated Exposure:**

**STOT - Repeated Exposure** No Information available.

**Inhalation** No specific symptoms noted.

**Ingestion** No specific symptoms noted.

**Skin contact** Skin irritation. Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** May cause serious eye irritation.

**Waste Management** When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**Routes of Entry** No Information available.

**Target Organs** No Information available.

**Aspiration Hazards:** No Information available.

**Reproductive Toxicity:** No Information available.

Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
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sodium hydroxide	2000.00mg/kg Rat		
Alkohole, C9-11, ethoxyliert Alkyl(C9-11) alcohol, ethoxylated (C9-C11)Alkyl alcohol ethoxylate - 2-[2-[2-(2-decoxyethoxy)ethoxy]ethoxy]ethanol 68439-46-3 ALCOHOL C9-11, ETHOXYLATED ALCOHOL ETHOXYLATES ALCOHOLS, C9-11, ETHOXYLATED ALKYL(C9-11) ALCOHOL, ETHOXYLATED Alcohol C9-11, ethoxylated Alcohols C9-11 ethoxylated Alcohols C9-11,ethoxylated Alcohols, C7-11, ethoxylated Alcohols, C9-11 ethoxylated Alcohols, C9-11 ethoxylated, < 2.5 EO Alcohols, C9-11 ethoxylated, > 6 EO Alcohols, C9-11, ethoxylated Alcohols, C9-11, ethoxylated Alcohols, C9-11, ethoxylated (1 - 2.5 mol EO) Alcohols, C9-11, ethoxylated (2,5-4EO) Alcohols, C9-11, ethoxylated (3 mol EO average molar ratio) Alcohols, C9-C11, ethoxylated Alkohole, C9-11, ethoxyliert Alkoholethoxylat Alkyl alcohol, C9-C11, ethoxylated C9-C11 Pareth-3 ETHOXYLATED ALCOHOL Ethoxylated C9 -11 alcohols Ethoxylated C9-11 alcohols (CAS # 68439-46-3) Fattyalcohol-ethoxylate a a-(nonyl - undecyl)oxy)-w-(2-hydroxyethyl)poly(ethane-1,2-diyloxy) alcohols, C9-11, ethoxylated alcohols, c9-11, ethoxylated alcohols,C9-11,ethoxylated not applicable not available	<2000.00mg/kg	>2000.00mg/kg	

## SECTION 12: Ecological Information

### 12.1 Ecotoxicity

**Ecotoxicity** No Information available.

### 12.2 Persistence and Degradability

**Degradability** Fully biodegradable.  
**Biological Oxygen Demand** No Information available.  
**Chemical Oxygen Demand** No Information available.

### 12.3 Bioaccumulative Potential

**Bioaccumulative Potential** No data available on bioaccumulation.  
**Bioaccumulation Factor** No Information Avaiaible  
**Partition coefficient; n-octanol/water** No Information available.

### 12.5 Mobility

**Mobility** No information available.

### 12.6 Results of PBT and vPvB Assessment

**Results of PBT and vPvB Assessment** No information available.

### 12.7 Other Adverse Effects

**Other Adverse Effects** No information available.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic Plants)
sodium hydroxide	LC50 48 Hours 45.40mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 76.00mg/l Daphnia magna	

## SECTION 13: Disposal Considerations

**Waste Management** When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### 13.1 Waste Treatment Methods

**Disposal Methods** Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: Transport Information

**14.1 UN Number**

UN No. (ADR/RID/ADN)	Not applicable.
UN No. (IMDG)	Not applicable.
UN No. (ICAO)	Not applicable.

**14.2 UN Proper Shipping Name**

Proper Shipping Name	Not applicable.
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**14.3 Transport Hazard Class(es)**

ADR/RID/ADN	Not applicable.
ADR/RID/ADN Class	Not applicable.
ADR Label No.	
IMDG Class	Not applicable.
ICAO Class/Division	Not applicable.
Transport Labels	

**14.4 Packing Group**

ADR/RID/ADN Packing Group	Not applicable.
IMDG Packing Group	Not applicable.
ICAO Packing Group	Not applicable.

**14.5 Environmental Hazards**

Environmentally Hazardous Substance/Marine Pollutant	No
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**14.6 Special Precautions for User**

EMS	Not applicable.
Emergency Action Code	Not applicable.
Hazard No. (ADR)	Not applicable.
Tunnel Restriction Code	Not applicable.

**14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory Information****15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

<b>EU Legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
<b>Approved Code of Practice</b>	2011 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)
<b>Chemical Safety Assessment</b>	No chemical safety assessment has been carried out.

**SECTION 16: Other Information**

<b>General Information</b>	No information available
<b>Revision Comments</b>	No information available
<b>Revision Date</b>	06/08/2015
<b>Revision</b>	1
<b>Safety Data Sheet Status</b>	Approved.

**Hazard Statements In Full**

<b>H290</b>	May be corrosive to metals.
<b>H314</b>	Causes severe skin burns and eye damage
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.