

**SAFETY DATA SHEET****Rubb Off**

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	30.11.2012
Revision date	19.10.2017

**1.1. Product identifier**

Product name	Rubb Off
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**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance / preparation	Cleaning agent.
Relevant identified uses	SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)PC35 Washing and cleaning products (including solvent based products)PROC2 Use in closed, continuous process with occasional controlled exposure
Uses advised against	No specific uses advised against are identified.

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

Company name	PLS Produkter AB (MultiClient)
Postal address	Fjärrvärmevägen 2
Postcode	S-54102
City	SKÖVDE
Country	Sverige
Telephone number	0046 500382080
Email	<a href="mailto:info@pls.nu">info@pls.nu</a>
Website	<a href="http://www.pls.nu">www.pls.nu</a>

**1.4. Emergency telephone number**

Emergency telephone	Telephone number: 112 Description: Giftinformationscentralen
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**SECTION 2: Hazards identification**

## 2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Dam. 1; H318 Skin Corr. 1A; H314
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## 2.2. Label elements

### Hazard pictograms (CLP)



Composition on the label	Diethylene glycol monobutyl ether 5 -10 vikt%, Alcohols, C12-C14, ethoxylated 1 -5 vikt%, Sodium hydroxide 1 -5 vikt%, Caustic potash 1 -3 vikt%
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P102 Keep out of reach of children. P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. 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.

## 2.3. Other hazards

PBT / vPvB	Not relevant.
Physicochemical effects	No recommendation given.
Health effect	Corrosive to skin and eyes.
Environmental effects	This substance is not classified as PBT or vPvB.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents
Diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8	Eye Irrit. 2; H319	5 -10 vikt%
Alcohols, C12-C14, ethoxylated	CAS No.: 68439-50-9 EC No.: 932-106-6	H302 Acute tox. 4 H318 Eye Dam. 1	1 -5 vikt%
Sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 Index No.: 011-002-00-6	Skin Corr. 1A; H314 Note : 2	1 -5 vikt%
Caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 Index No.: 019-002-00-8	Acute tox. 4; H302 Skin Corr. 1A; H314	1 -3 vikt%

Description of the mixture	No recommendation given.
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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY! If medical advice is needed, have product container or label at hand.
Inhalation	No recommendation given.
Skin contact	Wash skin thoroughly with soap and water for several minutes. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. Get immediate medical advice/attention. Continue to rinse for at least 15 minutes and seek medical attention.
Ingestion	Drink a few glasses of water or milk. DO NOT INDUCE VOMITING! Contact physician if larger quantity has been consumed.

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

Information for health personnel	Treat Symptomatically.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Separate first aid equipment	No recommendation given.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Improper extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

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

Fire and explosion hazards	This product is not flammable.
Hazardous combustion products	Not relevant.

### 5.3. Advice for firefighters

Other information	No recommendation given.
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## SECTION 6: Accidental release measures

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

General measures	Stop leak if safe to do so.
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Personal protection measures	Wear necessary protective equipment.
Hazardous combustion products	No recommendation given.
Personal precautions	No recommendation given.
For emergency responders	Stop leak if safe to do so.

## 6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.
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## 6.3. Methods and material for containment and cleaning up

Cleaning method	Small quantities can be dissolved/diluted in water and flushed to drain. Dam and absorb spillage with sand, sawdust or other absorbent.
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## 6.4. Reference to other sections

Other instructions	No recommendation given.
Additional information	No recommendation given.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Handling	Store in closed original container at temperatures between 8°C and 28°C. Avoid contact with skin and eyes.
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## Protective safety measures

Safety measures to prevent fire	No recommendation given.
Preventitive measures to prevent aerosol and dust generation	No recommendation given.
Preventitive measures to protect the environment	No recommendation given.
Advice on general occupational hygiene	Provide easy access to water supply and eye wash facilities.

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

Storage	Keep in original container.
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## Conditions for safe storage

Technical measures and storage conditions	Keep out of reach of children.
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## 7.3. Specific end use(s)

Recommendations	Do not handle until all safety precautions have been read and understood. Keep out of
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reach of children.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Value	TWA Year
Diethylene glycol monobutyl ether	CAS No.: 112-34-5	TWA (8h) : 10 ppm TWA (8h) : 68 mg/m3 <b>OEL short term value</b> Value: 15 ppm <b>OEL short term value</b> Value: 101 mg/m3	TWA Year: 2015
Sodium hydroxide	CAS No.: 1310-73-2	TWA (8h) : 1 mg/m3 <b>OEL short term value</b> Value: 2 mg/m3	TWA Year: 2015
Caustic potash	CAS No.: 1310-58-3	TWA (8h) : 1 mg/m3	
Other Information about threshold limit values	No recommendation given.		

### DNEL / PNEC

Summary of risk management measures, human	No recommendation given.
Summary of risk management measures, environment	No recommendation given.

### 8.2. Exposure controls

#### Eye / face protection

Eye protection	Use safety goggles or face shield in case of splash risk.
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#### Hand protection

Hand protection	Protective gloves are recommended.
Suitable gloves type	Nitrile. Polyvinyl chloride (PVC).

#### Skin protection

Skin protection (except hands)	Wear suitable protective clothing as protection against splashing or contamination.
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#### Respiratory protection

Respiratory protection	Under normal conditions of use respiration protection should not be required.
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#### Appropriate environmental exposure control

Environmental exposure controls	No recommendation given.
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#### Other information

Other information	No recommendation given.
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## SECTION 9: Physical and chemical properties

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

Physical state	Fluid.
Colour	Colourless.
Odour	Slight odour.
Odour limit	Comments: Not determined.
pH	Status: In delivery state Value: ~ 12,5  Status: In aqueous solution Value: ~ 11
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Value: ~ 100 °C
Flash point	Comments: Not determined.
Evaporation rate	Comments: Not determined.
Explosion limit	Comments: Inte relevant.
Vapour pressure	Comments: Not determined.
Vapour density	Comments: Not determined.
Specific gravity	Value: ~ 1,1 kg/dm <sup>3</sup>
Bulk density	Comments: Not determined.
Solubility	Comments: Soluble in water.
Partition coefficient: n-octanol/water	Comments: Not determined.
Spontaneous combustability	Comments: Not determined.
Decomposition temperature	Comments: Not determined.
Viscosity	Comments: Ej fastställt.
Explosive properties	Inte relevant.
Oxidising properties	Does not meet the criteria for oxidising.

### 9.2. Other information

#### Other physical and chemical properties

Comments	Information given concerns the concentrated solution.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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## 10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No recommendation given.
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## 10.4. Conditions to avoid

Conditions to avoid	Reacts violently with strong acids. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.
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## 10.5. Incompatible materials

Materials to avoid	Will corrode copper, zinc, aluminium and their alloys.
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## 10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products.
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## Other information

Other information	No recommendation given.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Substance	Diethylene glycol monobutyl ether
Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> 5660 mg/kg <b>Animal test species:</b> Rat  <b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Dermal <b>Value:</b> 4000 mg/kg <b>Animal test species:</b> Rabbit
Substance	Alcohols, C12-C14, ethoxylated
Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> > 2000 mg/kg <b>Animal test species:</b> Rat
Substance	Sodium hydroxide
Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD <sub>10</sub> <b>Route of exposure:</b> Oral

	<b>Value:</b> 500 mg/kg <b>Animal test species:</b> Rabbit
Substance	Caustic potash
Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Method:</b> LD50 <b>Value:</b> 273 mg/kg <b>Animal test species:</b> Rat

### Other information regarding health hazards

Inhalation	No recommendation given.
Skin contact	Orsakar allvarliga frätskador på hud och ögon.
Eye contact	Orsakar allvarliga frätskador på hud och ögon.
Ingestion	Skadlig vid förtäring.
Sensitisation	Not Sensitising.
Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity, other information	No known chronic or acute health risks.
Reproductive toxicity	No known chronic or acute health risks.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Diethylene glycol monobutyl ether
Acute aquatic, fish	<b>Toxicity type:</b> Acute <b>Value:</b> 1300 mg/l <b>Effect dose concentration :</b> LC50
Substance	Alcohols, C12-C14, ethoxylated
Acute aquatic, fish	<b>Value:</b> 1 - 10 mg/l <b>Test duration:</b> 96h <b>Species:</b> Carp fish <b>Method:</b> OECD 203
Substance	Sodium hydroxide
Acute aquatic, fish	<b>Toxicity type:</b> Acute <b>Value:</b> 125 mg/l <b>Effect dose concentration :</b> LC50 <b>Test duration:</b> 96 hour(s) <b>Species:</b> Gambusia affinis
	<b>Toxicity type:</b> Acute <b>Value:</b> 145 mg/l <b>Effect dose concentration :</b> LC50 <b>Test duration:</b> 24 hour(s) <b>Species:</b> Poecilia reticulata



Substance	Caustic potash
Acute aquatic, fish	<b>Toxicity type:</b> Acute <b>Value:</b> 80 mg/l <b>Effect dose concentration :</b> LC50 <b>Test duration:</b> 24 hour(s) <b>Species:</b> Gambusia affinis <b>Method:</b> LC50
Substance	Alcohols, C12-C14, ethoxylated
Acute aquatic, algae	<b>Value:</b> 1 - 10 mg/l <b>Test duration:</b> 72h <b>Species:</b> Selenastrum capricornutum <b>Method:</b> OECD 201
Substance	Diethylene glycol monobutyl ether
Acute aquatic, Daphnia	<b>Toxicity type:</b> Acute <b>Value:</b> > 100 mg/l <b>Effect dose concentration :</b> EC50 <b>Test duration:</b> 48 hour(s) <b>Species:</b> Daphnia magna
Substance	Alcohols, C12-C14, ethoxylated
Acute aquatic, Daphnia	<b>Value:</b> 1 - 10 mg/l <b>Test duration:</b> 48h <b>Species:</b> Daphnia magna <b>Method:</b> OECD 202
Substance	Sodium hydroxide
Acute aquatic, Daphnia	<b>Toxicity type:</b> Acute <b>Value:</b> 76 mg/l <b>Effect dose concentration :</b> EC50 <b>Test duration:</b> 24 hour(s) <b>Species:</b> Daphnia magna
Substance	Sodium hydroxide
Toxicity to bacteria	<b>Toxicity type:</b> Acute <b>Value:</b> 22 mg/l <b>Effect dose concentration :</b> EC50 <b>Test duration:</b> 15 minute(s) <b>Species:</b> Photobacterium phosphoreum
Ecotoxicity	There are no data on the ecotoxicity of this product. Not classified as dangerous to the environment.

## 12.2. Persistence and degradability

Substance	Diethylene glycol monobutyl ether
Biodegradability	<b>Value:</b> 89 -93 % <b>Method:</b> OECD test 301C <b>Test period:</b> 28 day(s)
Substance	Alcohols, C12-C14, ethoxylated
Biodegradability	<b>Value:</b> 100%

	<b>Method:</b> OECD 301A
Persistence and degradability, comments	All organic components are considered biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.
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### 12.4. Mobility in soil

Mobility	Data lacking.
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### 12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.
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### 12.6. Other adverse effects

Other adverse effects, comments	No recommendation given.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Recover and reclaim or recycle, if practical. Avoid release to the environment. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.
EWC waste code	EWC waste code: 200129 detergents containing dangerous substances Classified as hazardous waste: Yes
EWL packing	EWC waste code: 150102 plasticpackaging Classified as hazardous waste: No
Other information	Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

## SECTION 14: Transport information

### 14.1. UN number

ADR / RID / ADN	1824
IMDG	1824
ICAO / IATA	1824
Comments	Not relevant.

### 14.2. UN proper shipping name

ADR / RID / ADN	SODIUM HYDROXIDE SOLUTION
IMDG	SODIUM HYDROXIDE SOLUTION
ICAO / IATA	SODIUM HYDROXIDE SOLUTION
Comments	Not relevant.

**14.3. Transport hazard class(es)**

ADR / RID / ADN	8
IMDG	8
ICAO / IATA	8
Comments	Not relevant.

**14.4. Packing group**

ADR / RID / ADN	II
IMDG	II
ICAO / IATA	II
Comments	Not relevant.

**14.5. Environmental hazards**

Comments	Not relevant.
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**14.6. Special precautions for user**

Special safety precautions for user	Not relevant.
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**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****Additional information**

Additional information	Not relevant.
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**ADR / RID - Other information**

Hazard No.	80
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**IMDG / ICAO / IATA Other information**

EmS	F-A, S-B
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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. 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.
Legislation and regulations	Avfallsförordningen (2011:927). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a

European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## 15.2. Chemical safety assessment

Chemical safety assessment performed	No
CSR required	No
Exposure scenarios for mixture	Nej

## SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
List of relevant H-phrases (Section 2 and 3)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes Serious eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation.
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Eye Dam. 1; H318 Skin Corr. 1A; H314
Version	1
Prepared by	Erik Persson