

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 30.07.2015

Version 1

Revision: 30.07.2015

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

**- 1.1 Product identifier**

- Trade name: **PB 60**

- Article number: 95501020000

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

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category**

PC14 Metal surface treatment products, including galvanic and electroplating products

PC15 Non-metal-surface treatment products

- **Process category**

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

- **Environmental release category**

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

- **Application of the substance / the mixture**

Process auxiliary for surface finishing

Industrial use

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

- **Manufacturer/Supplier:**

Rösler Kromaş Makine Sanayi ve Tic. Ltd.Şti.  
Rami Kışla Cad. Cicoz Yolu Hekimoğlu İş Merk.  
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[www.roslerkromas.com](http://www.roslerkromas.com)

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- **Further information obtainable from:** Department of Product Control / E-Mail: [msds@rosler.com](mailto:msds@rosler.com)

**- 1.4 Emergency telephone number:**

Emergency number in case of toxication: University Hospital of Mainz +49 (0) 6131 - 19240  
(information in German and English language)

**SECTION 2: Hazards identification**

**- 2.1 Classification of the substance or mixture**

**- Classification according to Regulation (EC) No 1272/2008**



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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### - 2.2 Label elements

#### - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### - Hazard pictograms



GHS05

#### - Signal word Danger

#### - Hazard-determining components of labelling:

Nonylphenolpolyethylenglykolether  
dodecylbenzenesulphonic acid  
amides, coco, N,N-bis(hydroxyethyl)

#### - Hazard statements

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

#### - Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection.  
P273 Avoid release to the environment.  
P303+P361+P353 IF ON SKIN (or hair): 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.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

### - 2.3 Other hazards

#### - Results of PBT and vPvB assessment

- 2.3 PBT: Not applicable.

- 2.3 vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### - 3.2 Chemical characterization: Mixture

#### - Description:

Mixture of substances listed below with nonhazardous additions.

- Dangerous components:		
CAS: 127087-87-0 Polymer	Nonylphenolpolyethylenglykolether ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	1-5%
CAS: 27176-87-0 EINECS: 248-289-4	dodecylbenzenesulphonic acid ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302	1-5%
CAS: 68603-42-9 EINECS: 271-657-0	amides, coco, N,N-bis(hydroxyethyl) ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	1-5%

## SECTION 4: First aid measures

### - 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

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- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth with plenty of water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide and carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.

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**- Further information about storage conditions:**

Store at: +5 °C to +30 °C

Durability: at least 2 years

**- 7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

**- Additional information about design of technical facilities:**

No further data; see item 7.

**- 8.1 Control parameters**

**- Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

<b>- DNELs</b>		
<b>102-71-6 2,2',2''-nitritotriethanol</b>		
Dermal	DNEL long term exposure - systemic effects	6,3 mg/kg bw/day (Workers)
Inhalative	DNEL long term exposure - systemic effects	5 mg/m <sup>3</sup> (Workers)
	DNEL long-term exposure - local effects	5 mg/m <sup>3</sup> (Workers)
<b>- PNECs</b>		
<b>102-71-6 2,2',2''-nitritotriethanol</b>		
PNEC STP	10 mg/l (-)	
PNEC aqua	0,32 mg/l (freshwater)	
	0,032 mg/l (marine water)	
PNEC sediment	1,7 mg/kg (freshwater)	
	0,17 mg/kg (marine water)	
PNEC soil	0,151 mg/kg (-)	

**- Additional information:** The lists valid during the making were used as basis.

**- 8.2 Exposure controls**

**- Personal protective equipment:**

**- General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

**- Respiratory protection:**

Not necessary in case of intended use.

Use suitable respiratory protective device if vapors occur or aerosol is formed.

Filter A/P2

**- Protection of hands:**



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

After use of gloves apply skin-cleaning agents and skin cosmetics.

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**- Material of gloves**

e.g.

Nitrile rubber, NBR

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.

**- 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.

**- Eye protection:**



Tightly sealed goggles

**- Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

**- Appearance:**

Form:

Fluid

Colour:

Yellowish

**- Odour:**

Characteristic

**- pH-value (at 20 °C):**

8,8 (± 0,3)

**- pH-value (0,5%, at 20 °C):**

8,6 (± 0,3)

**- Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

100 °C

**- Flash point:**

Not applicable.

**- Flammability (solid, gaseous):**

Not applicable.

**- Ignition temperature:**

Decomposition temperature:

Not determined.

**- Self-igniting:**

Product is not selfigniting.

**- Danger of explosion:**

Product does not present an explosion hazard.

**- Explosion limits:**

Lower:

Not determined.

Upper:

Not determined.

**- Vapour pressure at 20 °C:**

23 hPa

**- Density (at 20 °C):**

1,009 (± 0,010) g/cm<sup>3</sup>

**- Relative density**

Not determined.

**- Vapour density**

Not determined.

**- Evaporation rate**

Not determined.

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- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Kinematic:** Not determined.
  - Dynamic (at 22 °C):** 39 - 58 mPa.s
- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No dangerous reactions in case of intended use.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions in case of intended use.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None in case of intended use and storage.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

The values of calculation of the acute oral, dermal and inhalation toxicity of this mixture lie above the concentration limits for classification according to Regulation (EC) No 1272/2008.

- <b>LD/LC50 values relevant for classification:</b>		
<b>27176-87-0 dodecylbenzenesulphonic acid</b>		
Oral	LD50	1150 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:**

This product has to be classified using the calculation set out according to Regulation (EC) No 1272/2008.  
Causes skin irritation.
- **on the eye:**

This product has to be classified using the calculation set out according to Regulation (EC) No 1272/2008.  
Causes serious eye damage.
- **Sensitisation:** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Regarding all rateable information this produkt is not cancerogenic, mutagenic or toxic for reproduction.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

This product has to be classified using the calculation set out according to Regulation (EC) No 1272/2008.

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Harmful to aquatic life with long lasting effects.

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **COD-value (5 g/L water):** 1205 mg/L
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Avoid transfer into the environment.  
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**  
The product contains no substance which is considered to be persistent, bioaccumulative or toxic (PBT) or as very persistent and very bioaccumulative (vPvB).
- **12.6 Other adverse effects** No further relevant information available.

### **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- <b>European waste catalogue</b>
16 03 05* organic wastes containing dangerous substances

- **Uncleaned packaging:**
- **Recommendation:**  
Not complete empty packaging should be disposed of as packaging with hazardous residues.  
15 01 10\*: packaging containing residues of or contaminated by dangerous substances.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

- **Recommended cleansing agents:** Water

### **SECTION 14: Transport information**

- |  |                 |
|--|-----------------|
| - <b>14.1 UN-Number</b>                    | Void            |
| - <b>ADR, ADN, IMDG, IATA</b>              | Void            |
| - <b>14.2 UN proper shipping name</b>      | Void            |
| - <b>ADR, ADN, IMDG, IATA</b>              | Void            |
| - <b>14.3 Transport hazard class(es)</b>   | Void            |
|  |                 |
| - <b>ADR, ADN, IMDG, IATA</b>              | Void            |
| - <b>Class</b>                             | Void            |
| - <b>14.4 Packing group</b>                | Void            |
| - <b>ADR, IMDG, IATA</b>                   | Void            |
| - <b>14.5 Environmental hazards:</b>       | Not applicable. |
| - <b>14.6 Special precautions for user</b> | Not applicable. |

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- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** -

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Existing laws and regulations have to be observed by the receiver on its own responsibility.

#### - Relevant phrases

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H411 Toxic to aquatic life with long lasting effects.

#### - Department issuing MSDS:

Rösler Oberflächentechnik GmbH  
Department of Product Control

#### - Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

#### - Sources

For the preparation of this MSDS information from our suppliers, information on chemicals from the European Chemicals Agency (ECHA) and data from the GESTIS database were used.