



## 1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** **per~tas®**

· **Application of the substance / the preparation**

Cleaning concentrate for an injection moulding machine for plastics, injection blow-moulding, injection-blow extruders and extruders.

· **Manufacturer/Supplier:**

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D-51580 Reichshof  
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e-mail: info@ver-rus.de  
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· **Further information obtainable from:**

Ms.Evelyne Lieberum phone number: + 49 (0) 22 61 - 95 12 54  
e-mail: info@ver-rus.de

· **Information in case of emergency:** phone number: + 49 (0) 22 61 - 95 12 54 (while office-time)

## 2 Hazards identification

· **Hazard description:** Not applicable.

· **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

## 3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** acrylic acid-nitril-butadiene-styrene-copolymer, surfactantes and other additives.

· **Dangerous components:**

CAS: 1344-28-1 EINECS: 215-691-6	aluminium oxide	10-25%
CAS: 1066-33-7 EINECS: 213-911-5	ammonium hydrogencarbonate Xn; R 22	2,5-10%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Xi,  F; R 11-36-67	2,5-10%
CAS: 25155-30-0 EINECS: 246-680-4	sodium dodecylbenzenesulfonate Xi; R 36/38	1,0- 2,5%
CAS: 68439-50-9	Alcohols, C12-14, ethoxylated Xn,  Xi,  N; R 22-41-50	0,1-1,0%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

polycarboxylates, soap, phosphonates, anionic surfactants, perfumes (alpha-Hexylzimaldehyd, 2-(4-tert-Butylbenzyl)propionaldehyde)	< 5%
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· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately rinse with water.



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- After contact with the molten product, cool rapidly with cold water.
- Do not pull solidified product off the skin.
- Cool quickly with cold water after contact with molten product.
- Do not pull away solidified product from skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Seek medical treatment.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide (CO)  
Hydrogen cyanide (HCN)
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Person-related safety precautions:** Avoid formation of dust.
- **Measures for environmental protection:**  
Damp down dust with water spray.  
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Flush away residues with water.
- **Additional information:** No dangerous substances are released.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** Dust can combine with air to form an explosive mixture.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Do no store at temperatures lower than + 10 °C and higher than + 25 °C.
- **Storage class:** 11 (conform VCI) Flammable solids.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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

**1344-28-1 aluminium oxide**

AGW (Germany)	3* 10** mg/m <sup>3</sup> 2(II);*alveolengängige **eintembare Fraktion; AGS
MAK (EU)	200 mg/m <sup>3</sup> , 300 ppm
MAK (Switzerland)	Short-term value: 24 a mg/m <sup>3</sup> Long-term value: 3 a mg/m <sup>3</sup>

**67-63-0 propan-2-ol**

AGW (Germany)	500 mg/m <sup>3</sup> , 200 ppm 2(II);DFG, Y
MAK (EU)	200 mg/m <sup>3</sup> , 300 ppm
MAK (Switzerland)	Short-term value: 1000 mg/m <sup>3</sup> , 400 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm

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

**· Personal protective equipment:**

**· General protective and hygienic measures:**

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

Avoid contact with the eyes and skin.

**· Respiratory protection:** Not necessary if room is well-ventilated.

**· Protection of hands:**

Rubber gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

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

**9 Physical and chemical properties**

**· General Information**

<b>Form:</b>	Powder
<b>Colour:</b>	white to yellowish
<b>Odour:</b>	mild ammonia-like

**· Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

**· Flash point:** Not applicable.

**· Self-igniting:** Product is not selfigniting.

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· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Vapour pressure at 20°C:</b>	23 hPa
· <b>Density at 20°C:</b>	>1 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Slightly soluble.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	4,0 %
<b>Water:</b>	24,7 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**  
Carbon monoxide  
Poisonous gases/vapours

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** irritation is possible
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### 12 Ecological information

- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Hand over to hazardous waste disposers.
- **European waste catalogue**
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

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- **Maritime transport IMDG:**
- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

### 15 Regulatory information

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

### 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.

- **Relevant R-phrases**

11 Highly flammable.

22 Harmful if swallowed.

36 Irritating to eyes.

36/38 Irritating to eyes and skin.

41 Risk of serious damage to eyes.

50 Very toxic to aquatic organisms.

67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS:** Abteilung Produktsicherheit

- **\* Data compared to the previous version altered.**

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