

**Material safety data sheet**  
according to 1907/2006/EC  
redesigned according (EU)2015/830



Trade name: per~tas

Printing date: 06/06/2017

version 2

effective from 04/05/2017

## 1. Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

Trade name: per~tas

REACH: not relevant, this product is a mixture.

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

No further relevant information available.

#### Application of the substances/ the preparation:

Cleaning concentrate for plastic injection moulding equipment and extruders

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

#### Manufacturer/ Supplier:

ver~rus

Owner: Dirk Schulte

Rapsweg 4

D-57439 Attendorn

Fon: +49 (0)2722 4091524

Fax: +49 (0)2722 708427

E-Mail: [info@ver-rus.de](mailto:info@ver-rus.de)

### 1.4 Emergency telephone number:

Fon.: +49 (0)2722 4091524 (Inside normal hours)

## 2. Hazard identification

### 2.1 Classification of the substance mixture:

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

### 2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008: Void**

**Hazard pictograms:** Void

**Signal words:** Void

**Hazard statements:** Void

EUH210: Safety data sheet available on request

**Precautionary statements:**

P404: Store in a closed container.

### 2.3 Other hazards:

no further information available

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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### 3. Composition/information on ingredients

#### 3.2 Mixtures

**Description:** the product is a mixture.

Dangerous components	Classification	Hazard statements	Identifier	Weight-%
Ammonium hydrogen carbonate	Acute Tox. 4	H302	CAS:1066-33-7 EINECS: 213-911-5	3-8%
2-Propanol	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336	CAS:67-63-0 EINECS: 200-661-7	1-5%
Sodium carbonate	Eye Irrit. 2	H319	CAS:1066-33-7 EINECS: 213-911-5	1-3%
Benzene sulfonic acid	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 3	H302 H315 H318 H412	CAS: 68411-30-0 EINECS: 270-115-0	< 2%

Additional information: wording of the hazard statements is listed in section 16.

### 4. First aid measures

#### 4.1 Description of first aid measures:

**General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

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

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. In case of persisting skin irritation consult a doctor.

**After eye contact:** Rinse opened eye for several minutes (min. 10-15 minutes) under running water. Consult an eye specialist and protect unharmed eye.

**After swallowing:** Rinse out mouth and drink copious amounts of water. Avoid vomiting. Call for a doctor.

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

Can cause irritations in the event of prolonged contact with skin and eyes.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

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## 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.

For safety reason unsuitable extinguishing agents: Water with full jet

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

The product itself does not burn. Formation of toxic gases is possible during heating or in case of fire.

### 5.3 Advice for firefighters:

Protective equipment: Do not inhale explosion gas or combusting gases.

#### Additional information:

Collect contaminated firefighting water separately. It must not enter the sewage system.

## 6. Accidental release measures

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

#### Advice for non-emergency personnel:

Wear protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe vapour. Do not inhale dust. Provide adequate ventilation.

### 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Pick up mechanically. Avoid generation of dust. Collect in suitable container for disposal.

Ventilate the room sufficiently.

### 6.4 References to other sections:

See Section 5 for information on hazardous combustion products.

See Section 8 for information on personal protection equipment.

See Section 10 for information on incompatible materials.

See Section 13 for disposal information.

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## 7. Handling and storage

### 7.1 Precautions for safe handling:

Prevent formation of dust.

Provide adequate ventilation.

**Information about fire – and explosion protection:** No special measures are necessary.

**Advice on general occupational hygiene:** Wash hands before breaks and at the end of work. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed.

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:** Keep container tightly sealed.

### 7.3 Specific end use(s): No further relevant information available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters:

#### Dust:

State	Chemical agent	Notice	Identifier	TWA [mg/m <sup>3</sup> ]	STV [mg/m <sup>3</sup> ]	Source
germany	dust	Respirable fraction	occupational exposure limit value	10	20	TRGS 900
germany	dust	Popular alveo fractions	occupational exposure limit value	1,25	2,4	TRGS 900

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**Relevant DNELs, DMELs, PNECs and other threshold**

- Does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Relevant DNELs of an ingredient in the mixture (Benzene sulfonic acid (amount: < 2%))

Chemical name	CAS- Nr.	Threshold	Protection objective, exposure route	Application	duration of exposure
Benzene sulfonic acid	68411-30-3	85 mg/kg	Human, dermal	General population	chronic – systemic effect
Benzene sulfonic acid	68411-30-3	0,58 mg/kg	Human, oral	General population	chronic – systemic effect
Benzene sulfonic acid	68411-30-3	12 mg/m <sup>3</sup>	Human, inhalation	General population	chronic – systemic effect
Benzene sulfonic acid	68411-30-3	3 mg/m <sup>3</sup>	Human, inhalation	employees in the industry	chronic - systemic effect
Benzene sulfonic acid	68411-30-3	3 mg/m <sup>3</sup>	Human, inhalation	General population	chronic - local effect
Benzene sulfonic acid	68411-30-3	12 mg/m <sup>3</sup>	Human, inhalation	employees in the industry	Chronisch – local effect

- Relevant PNEC of an ingredient in the mixture

Stoffname	CAS- Nr.	Threshold	Environmental compartment
Benzene sulfonic acid	68411-30-3	0,268 mg/l	fresh water
Benzene sulfonic acid	68411-30-3	0,0268 mg/l	seawater
Benzene sulfonic acid	68411-30-3	8,1 mg/kg	Sediment / fresh water
Benzene sulfonic acid	68411-30-3	8,1 mg/kg	Sediment / seawater
Benzene sulfonic acid	68411-30-3	3,43 mg/l	treatment plant
Benzene sulfonic acid	68411-30-3	35 mg/kg	land

**8.2 Exposure controls:**

**Personal protective equipment**

**General protective and hygienic measures:**

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

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Do not inhale dust/ smoke/ mist.

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Avoid contact with the eyes and skin.

**Eye protection:** Tightly sealed goggles.

**Protection of hands:** Protective 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 cannot be calculated in advance and has therefore to be checked prior to the application. Before using check leak tightness / impermeability.

Material of gloves: e.g. nitrile rubber

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Environment exposure control measures:** keeping away from drains, surface and ground water.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information:

#### Appearance:

Form:	Powder
Colour:	Whitish
Odour:	Characteristic
Odour threshold:	Not determined.

#### physical and chemical characteristics:

pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
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:	Not applicable.
Density at 20°C:	>1 g/cm <sup>3</sup>
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Partly miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	not relevant (solid)

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version 2

effective from 04/05/2017

**9.2 Other information:**

Temperature class acc. To ATEX

T1 (maximum permissible surface temperature on the operating material: 450°C)

**10. Stability and reactivity**

10.1 **Reactivity:** No further relevant information available.

10.2 **Chemical stability:**

The product is chemically stable under standard ambient conditions (container tightly closed) and with expected conditions of temperature and pressure during handling and storage.

10.3 **Possibility of hazardous reactions:** No dangerous reactions known.

10.4 **Conditions to avoid:** No further relevant information available.

10.5 **Incompatible materials:** No further relevant information available.

10.6 **Hazardous decompositions products:** see section 5

**11. Toxicological information**

11.1 **Information on toxicological effects:**

There are no toxicological results on this mixture. The mixture is not classified.

Components of the mixture that could contribute to acute toxicity:

- Component: ammonium hydrogen carbonate (percentage: 3-8 %),
- Component: benzene sulfonic acid (percentage: < 2%)

Chemical name	CAS- Nr.	exposure route	value	endpoint	species	source
ammonium hydrogen carbonate	1066-33-7	oral	1576 mg/kg	LD50	rat	IUCLID
benzene sulfonic acid	68411-30-3	oral	1080 mg/kg	LD50	rat	

Calculated estimate on acute oral toxicity: ATE (mix): 20 833 mg/kg

**Skin corrosion/ irritation:** the mixture can cause irritation to skin. The classifications were based on substance-specific concentration limit values.

Relevant component of the mixture:

benzene sulfonic acid (< 2%), classification of the substance: class 2

SCL: class 2: 10% (general limit)

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according to 1907/2006/EC  
redesigned according (EU)2015/830



Trade name: per~tas

Printing date: 06/06/2017

version 2

effective from 04/05/2017

**Serious eye damage/ irritation:** the mixture is not classified as serious eye damage. The classifications were based on substance-specific concentration limit values.

**Relevant component of the mixture:**

- 2-propanol (1-5 %), classification of the substance: class 2  
SCL: class 2: 10% (general limit)
- benzene sulfonic acid (< 2%), classification of the substance: class 1  
SCL: class 1: 3% (general limit)
- sodium carbonate (1-3%), classification of the substance: class 2  
SCL: class 2: 10% (general limit)

**Respiratory or skin sensitisation:** The mixture is not classified. The mixture does not contain any substances that are classified.

**Cell mutagenicity:** The mixture is not classified. The mixture does not contain any substances that are classified.

**Carcinogenicity:** The mixture is not classified. The mixture does not contain any substances that are classified.

**Toxicity in relation to reproduction:** The mixture is not classified. The mixture does not contain any substances that are classified.

**Specific target organ toxicity - repeated exposure:** The mixture is not classified. The mixture does not contain any substances that are classified.

**Specific target organ toxicity - single exposure:** The mixture is not classified.

**Relevant component of the mixture:**

- 2-Propanol (1-5 %), classification of the substance: class 3  
SCL: class 2: 20% (general limit)

**Aspiration hazard:** The mixture is not classified. The mixture does not contain hydrocarbons.

## 12. Ecological information

### 12.1 Toxicity:

**Relevant component of the mixture:**

- benzene sulfonic acid (< 2%), classification of the substance: class 3

The mixture is not classified.

### 12.2 Persistence and degradability:

Are not readily biodegradable

### 12.3 Bioaccumulative potential of components of the mixture:

- Ammonium hydrogen carbonate (CAS 1066-33-7): Does not easily accumulated in living organisms.
  - Octanol/water (log KOW) -2,4 (25°C)
- sodium carbonate (CAS 497-19-8): No data was available.
- 2-Propanol (CAS 67-63-0): Does not easily accumulated in living organisms.
  - Octanol/water (log KOW) 0,05

**12.4 Mobility in soil:** components of the mixture are insoluble and swim on the water surface.

**12.5 Results of the PBT and vPvB assessment:** No data available.



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**12.6 Other adverse effects:** Do not allow product to reach ground water, water course or sewage system.

## 13. Disposal considerations

### 13.1 Waste treatment methods:

#### European waste catalogue:

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Uncleaned packaging:** Disposal must be made according to official regulations.

## 14. Transport Information

- |      |                                                                                 |                                                 |
|------|---------------------------------------------------------------------------------|-------------------------------------------------|
| 14.1 | <b>UN-Number:</b>                                                               | is not defined under regulations for transport. |
| 14.2 | <b>UN proper shipping name:</b>                                                 | Not relevant                                    |
| 14.3 | <b>Transport hazard class(es):</b>                                              | Not relevant                                    |
| 14.4 | <b>Packing group:</b>                                                           | Not relevant                                    |
|      | <b>ADR, IMDG, IATA</b>                                                          |                                                 |
| 14.5 | <b>Environmental hazards:</b>                                                   | No                                              |
|      | <b>Marine pollutant:</b>                                                        |                                                 |
| 14.6 | <b>Special precautions for user:</b>                                            | See section 6 to 8                              |
| 14.7 | <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | The material will not be transported in bulk.   |
| 14.8 | <b>UN "Model Regulation":</b>                                                   | /                                               |

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

#### EU-regulations

**Directive (EG) 1005/2009 (substances that deplete the ozone layer):** None of the ingredients is listed.

**Directive (EG) 850/2004 (persistent organic pollutants):** None of the ingredients is listed.

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**Directive (EG) 649/2012 (export and import of dangerous chemicals):** None of the ingredients is listed.

**restriction under the REACH regulation, Annex XVII:** None of the ingredients is listed.

**Authorisation List (REACH, AnnexXIV):** None of the ingredients is listed.

**Guideline 2012/18 EU (Seveso III):** None of the ingredients is listed.

**National regulations (germany):**

- **Administrative Regulation on Substances Hazardous to Waters (VwVwS)**  
 water hazard class: WHC 2 ((self-classification): hazardous for water.
- **Technical Instructions on Air Quality Control (germany)**

Number	Group of substance	Concentration	Mass flow	Mass concentration	Notice
5.2.1	Total dust, including particulate matter	100 %	0,2 kg/h	20 mg/m <sup>3</sup>	2)

2) Even under observance or below the limit of air flow of 0,2 kg/h, the mass concentration of waste gas of 0,15 kg/h shall not be exceeded.

**Storage of hazardous materials in mobile containers (TRGS 510) (germany)**

Storage classification (LGK): category 13 (non-flammable solid materials)

**Regulation of legal insurer**

Please consider possible restrictions of occupation after maternity protection guideline regulation or law for the protection of young workers.

National legislation has to be considered.

15.2 **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16. Other information**

Abbreviations and acronyms

Acute Tox. 4	Acute toxicity, Hazard Category 4
ADR	Accord européen sur le transport des marchandises dangereuses par Route
AGW	occupational exposure limit value
Aquatic Acute 1	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
ATE	Acute Toxicity Estimate (Schätzwert akuter Toxizität)
CAS	Chemical Abstracts Service (division of the American Chemical Society)
Dmel	Derived Minimal Effect Level
Dnel	Derived No-Effect Level (REACH)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam. 1	Serious eye damage/ eye irritation, Hazard Category 1

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Trade name: per~tas

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Eye Irrit. 2	Serious eye damage/ eye irritation, Hazard Category 2
Flam. Liq. 2	Flammable liquids, Hazard Category 2
GefStoffV	Gefahrstoffverordnung
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA/DGR	Dangerous Goods Regulation (DGR) for the air transport (International Air Transport Association/IATA)
IMDG	International Maritime Code for Dangerous Goods
STV	Short-time values
LGK	Storage of hazardous materials in mobile containers TRGS 510/ germany
Met. Corr. 1	May be corrosive to metals.
PBT	persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration (REACH)
Skin Corr. 1	Skin corrosion, Hazard Category 1
Skin Irrit. 2	Skin corrosion/ irritation, Hazard Category 2
TWA	time-weighted average,
STOT SE	Specific target organ toxicity – Single exposure, Hazard Category 3
TRGS	(TRGS 900); Air limit values at the work place
vPvB	very Persistent and very Bioaccumulative
VwVws	Administrative Regulation on Substances Hazardous to Waters/ germany
WHC	water hazard class

**Relevant phrases:**

- EUH210 Safety data sheet available on request.
- P404 Store in a closed container.

**Exclusion of liability**

This information is based on our present knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.