

## Safety Data Sheet

### according to 1907/2006/EC, Article 31

Printing date 28.06.2007

Revision: 28.06.2007

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

##### Product details

**Trade name** PALLADIUM ECO FLUSH

**Application of the substance / the preparation:** Cleaning material/ Detergent

##### Manufacturer/Supplier:

SIGNTRADE GmbH

Gartenweg 24

CH-6343 Buonas

Phone: +41 41-7920157

##### Informing department:

Product Safety Department

Ralf Timm

e-mail: ralf.timm@signtrade.ch

**Emergency information:** +41 41 7920157 (Business hours: 08.00-17.00)

#### 2 Hazards identification

##### Hazard designation:



Xn Harmful

##### Information pertaining to particular dangers for man and environment

R 20/21 Harmful by inhalation and in contact with skin.

##### Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

#### 3 Composition/information on ingredients

##### Chemical characterization

##### Dangerous components:

CAS: 112-07-2	2-butoxyethyl acetate	Xn; R 20/21	25-50%
EINECS: 203-933-3			

**Additional information** For the wording of the listed risk phrases refer to section 16.

#### 4 First aid measures

**General information** Instantly remove any clothing soiled by the product.

##### After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

**After skin contact** Instantly wash with water and soap and rinse thoroughly.

**After eye contact** Rinse opened eye for several minutes under running water.

##### After swallowing

Rinse out mouth and then drink plenty of water.

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In case of persistent symptoms consult doctor.

#### 5 Fire fighting measures

**Suitable extinguishing agents**
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
**Special hazards caused by the material, its products of combustion or flue gases:**

Can be released in case of fire:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)
**Protective equipment:** Wear self-contained breathing apparatus.

#### 6 Accidental release measures

**Person-related safety precautions:** Ensure adequate ventilation

**Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.

**Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to chapter 13.

#### 7 Handling and storage

**Handling**
**Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about protection against explosions and fires:** The product is combustible.

**Storage**
**Requirements to be met by storerooms and containers:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

#### 8 Exposure controls and personal protection

**Additional information about design of technical systems:** No further data; see chapter 7.

**Components with critical values that require monitoring at the workplace:**
**112-07-2 2-butoxyethyl acetate**

WEL	Short-term value: 50 ppm
	Long-term value: 20 ppm
Sk	

**Additional information:** The lists that were valid during the compilation were used as basis.

**Personal protective equipment**
**General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

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Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**Protection of hands:**

Protective 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**

Butyl rubber, BR

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:** Safety glasses recommended during refilling.

### 9 Physical and chemical properties:

#### General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
	Clear
<b>Smell:</b>	characteristic

#### Change in condition

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	100°C

**Flash point:** ~ 70°C

**Self-inflammability:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive.

#### Critical values for explosion:

<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined

**Steam pressure:** Not determined

**Density at 20°C** 0.90-1.10 g/cm<sup>3</sup>

#### Solubility in / Miscibility with

**Water:** Partly miscible

**pH-value:** Not determined

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**Viscosity:**  
**dynamic at 20°C:** 2.0-4.0 cp

**Solvent content:**  
**VOC/EC** 980.0 g/l  
**VOC/EC** 98.00 %

### 10 Stability and reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions**

Reacts with strong acids and oxidizing agents

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised

**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:** Not determined

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritant effect.

**Sensitization:** No sensitizing effect known.

**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

### 12 Ecological information:

**Ecotoxicological effects:**

**Aquatic toxicity:** Not determined

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### 13 Disposal considerations

**Product:**

**Recommendation**

Disposal according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 04	other organic solvents, washing liquids and mother liquors

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**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information****Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID Class: -

**Maritime transport IMDG:**

IMDG Class: -

Marine pollutant: No

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

ICAO/IATA Class: -

**Transport/Additional information:** Not dangerous according to the above specifications.**15 Regulatory information****Designation according to EC guidelines:**

Observe the normal safety regulations when handling chemicals

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

**Code letter and hazard designation of product:**

Xn Harmful

**Hazard-determining components of labelling:**

2-butoxyethyl acetate

**Risk phrases:**

20/21 Harmful by inhalation and in contact with skin.

**Safety phrases:**

9 Keep container in a well-ventilated place.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

36/37 Wear suitable protective clothing and gloves.

60 This material and its container must be disposed of as hazardous waste.

**National regulations****Technical instructions (air):**

Class	Share in %
NK	49.0

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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**16 Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant R-phrases**

20/21 Harmful by inhalation and in contact with skin.

**Department issuing data specification sheet:** Product safety department

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