

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 01.03.2006

Reviewed on 01.03.2006






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

- **Product details**
- **Trade name:** **Cleaning tablets**
- **Application of the substance / the preparation** Cleaning tablets for earmoulds
- **Manufacturer/Supplier:**  
Dreve Otoplastik GmbH  
Max-Planck-Straße 31  
59423 Unna / Germany  
Tel.: ++49 2303 / 8807-0  
Fax.: ++49 2303 / 82909
- **Further information obtainable from:**  
Department Research & Development  
Tel.: ++49 2303 / 8807-14/-17/-569
- **Information in case of emergency:**  
49(0)211/797-3350  
Plant Fire Department Henkel

### 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 10332-33-9 EINECS: 234-390-0	sodium perborate monohydrate  Xn,  O; R 8-22-36/38	10-25%
CAS: 151-21-3 EINECS: 205-788-1	sodium dodecyl sulphate  Xn; R 21/22-36/37/38	10-25%
CAS: 10058-23-8 EINECS: 233-187-4	potassium hydrogenperoxomonosulphate  C,  O; R 8-22-34	2.5-10%

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

### 3 Hazards identification

- **Hazard description:**



Xn Harmful  
O Oxidising

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

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 8 Contact with combustible material may cause fire.

R 21/22 Harmful in contact with skin and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage to eyes.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 4 First-aid measures

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 2)

GB



## Material Safety Data Sheet According to 91/155 EEC

Printing date 01.03.2006

Reviewed on 01.03.2006

**Trade name: Cleaning tablets**

(Contd. of page 1)

- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting.
- **Information for doctor:**
- **Treatment** If swallowed, gastric irrigation.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
Water  
Foam  
Fire-extinguishing powder  
Sand
- **For safety reasons unsuitable extinguishing agents:** Carbon dioxide
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
In case of fire, the following can be released:  
Sulphur dioxide (SO<sub>2</sub>)  
In case of heat, oxygen can be released, acting oxidizing in the presence of combustible materials.  
Product is not combustible
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Ensure adequate ventilation  
Do not breathe dust.  
Avoid contact with skin and eyes.  
Flush away residues with water.
- **Measures for environmental protection:**  
Pick up mechanically.  
Dispose of the material collected according to regulations.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Avoid contact with skin and eyes.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Protect from humidity and water.  
Protect from heat and direct sunlight.  
Store in dry conditions.  
Keep away from combustible materials.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

—GB—

(Contd. on page 3)

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 01.03.2006

Reviewed on 01.03.2006

Trade name: **Cleaning tablets**

(Contd. of page 2)

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
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.
- **Respiratory protection:** Required in case of dust.
- **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**  
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

### 9 Physical and chemical properties

#### • General Information

<b>Form:</b>	Solid
<b>Colour:</b>	blue-white, tinged
<b>Odour:</b>	Aromatic

#### • Change in condition

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

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

• **Flash point:** Not applicable.

• **Ignition temperature:**

• **Decomposition temperature:** > 50°C

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

• **Danger of explosion:** Product does not present an explosion hazard.

(Contd. on page 4)



# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 01.03.2006

Reviewed on 01.03.2006

Trade name: **Cleaning tablets**

(Contd. of page 3)

- |  |                 |
|--|-----------------|
| · <b>Density:</b>                                | Not determined. |
| · <b>Solubility in / Miscibility with water:</b> | Soluble.        |
| · <b>pH-value at 25°C:</b>                       | 8               |

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
Humidity  
Protect from heat and direct sunlight.
- **Materials to be avoided:** Reacts with reducing agents.
- **Dangerous decomposition products:**  
Oxygen  
Sulphur dioxide

### 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

#### 10332-33-9 sodium perborate monohydrate

Oral	LD50	900-2100 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rbt)

#### 151-21-3 sodium dodecyl sulphate

Oral	LD50	1288 mg/kg (rat)
------	------	------------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant

### 12 Ecological information

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
The product does not contain organically bounded halogens (AOX-free).

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Disposal must be made according to official regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 5)

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 01.03.2006

Reviewed on 01.03.2006

Trade name: **Cleaning tablets**

(Contd. of page 4)

- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.  
Non contaminated packagings may be treated like household garbage.

### 14 Transport information

#### · Land transport ADR/RID (cross-border)



- **ADR/RID class:** 5.1 Oxidizing substances.
- **Danger code (Kemler):** 58
- **UN-Number:** 3085
- **Packaging group:** II
- **Hazard label** 5.1+8
- **Description of goods:** 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium hydrogenperoxomonosulphate)

#### · Maritime transport IMDG:



- **IMDG Class:** 5.1
- **UN Number:** 3085
- **Label** 5.1+8
- **Packaging group:** II
- **EMS Number:** F-A,S-Q
- **Marine pollutant:** No
- **Proper shipping name:** OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium hydrogenperoxomonosulphate)

#### · Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 3085
- **Label** 5.1+8
- **Packaging group:** II
- **Proper shipping name:** OXIDIZING SOLID, CORROSIVE, N.O.S. (potassium hydrogenperoxomonosulphate)

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

(Contd. on page 6)

# Material Safety Data Sheet

## According to 91/155 EEC

Printing date 01.03.2006

Reviewed on 01.03.2006

**Trade name: Cleaning tablets**

(Contd. of page 5)

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

Xn Harmful  
O Oxidising

**· Hazard-determining components of labelling:**

sodium perborate monohydrate  
sodium dodecyl sulphate

**· Risk phrases:**

8 Contact with combustible material may cause fire.  
21/22 Harmful in contact with skin and if swallowed.  
37/38 Irritating to respiratory system and skin.  
41 Risk of serious damage to eyes.

**· Safety phrases:**

1/2 Keep locked up and out of the reach of children.  
3 Keep in a cool place.  
17 Keep away from combustible material.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
60 This material and its container must be disposed of as hazardous waste.

**· National regulations:**

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

### 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**

21/22 Harmful in contact with skin and if swallowed.  
22 Harmful if swallowed.  
34 Causes burns.  
36/37/38 Irritating to eyes, respiratory system and skin.  
36/38 Irritating to eyes and skin.  
8 Contact with combustible material may cause fire.

· **Department issuing MSDS:** Department Research & Development

· **Contact:** Dr. Thomas Veit, Dr. Reiner Altmann

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