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

1.1. Product identifier

KaVo RONDOflex POWDERS

Product code:
1.000.5954
1.000.5955
1.000.5956
1.000.5957

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

Use of the substance/mixture
Cleaning agent

1.3. Details of the supplier of the safety data sheet

Company name: Kaltenbach & Voigt GmbH
Street: Bismarckring 39
Place: D-88400 Biberach
Telephone: +49 (0) 7351 56 0
Telex: + 49 (0) 7351 56 1488
e-mail: sdb@kavo.com
Internet: http://www.kavo.com/
Responsible Department: Questions concerning SDB: PES-Ingenieurgesellschaft mbH

1.4. Emergency telephone number:
+49 (0) 7351 56 4000 (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008
This substance is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Inhalation of dust may cause irritation of the respiratory system.
Particulates and dust: Irritating to eyes and skin.
This substance does not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization
Contains:
aluminium oxide, corundum CAS No. 1344-28-1 (EG-215-691-6)

Sum formula: AL2 O3
Molecular weight: 102

SECTION 4: First aid measures
4.1. Description of first aid measures

General information
In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation
Provide fresh air.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes
Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion
Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products: No data available

5.3. Advice for firefighters
Non-flammable.
In case of fire: Wear self-contained breathing apparatus.
In case of fire and/or explosion do not breathe fumes.

Additional information
Avoid dust formation. Contaminated fire-fighting water must be collected separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Ventilate affected area. Personal protection equipment: see section 8 Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid dust formation. Do not breathe dust.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up
Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advises on safe handling
Provide adequate ventilation. Avoid dust formation. Do not breathe dust.

Advice on protection against fire and explosion
No special fire protection measures are necessary.

Further information on handling
When using do not eat, drink or smoke. Wash hands before breaks and after work. Protect skin by using skin protective cream. Change contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed and in a well-ventilated place. Keep/Store only in original container.

Advice on storage compatibility
Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions
Ensure adequate ventilation of the storage area.

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1344-28-1</td>
<td>Aluminium oxides, respirable dust</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls
Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures
Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid contact with eyes. Do not breathe dust.

Eye/face protection
Wear eye protection/face protection.

Hand protection
Wear suitable gloves. (DIN EN 374)
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection
Wear suitable protective clothing.
Respiratory protection
In case of inadequate ventilation wear respiratory protection. Particle filter device (DIN EN 143)

Environmental exposure controls
Avoid release to the environment. Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>solid (Powder)</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>white</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>odourless</td>
</tr>
<tr>
<td><strong>pH-Value</strong></td>
<td>not determined</td>
</tr>
</tbody>
</table>

**Changes in the physical state**

- **Melting point**: 2050 °C
- **Initial boiling point and boiling range**: 2920-3040 °C
- **Flash point**: not applicable

**Flammability**

- **Solid**: not determined
- **Gas**: not applicable

**Explosive properties**

- not explosive.
- **Lower explosion limits**: not determined
- **Upper explosion limits**: not determined
- **Ignition temperature**: not determined

**Auto-ignition temperature**

- **Solid**: not applicable
- **Gas**: not applicable

**Decomposition temperature**: not determined

**Oxidizing properties**

- Not oxidising.

- **Vapour pressure**:
  - (at 20 °C): 0 hPa
- **Density (at 20 °C)**: 3.9 g/cm³
- **Water solubility**: practically insoluble

**Solubility in other solvents**

- not determined
- **Partition coefficient**: not determined
- **Viscosity / dynamic**: not applicable
- **Viscosity / kinematic**: not applicable
- **Vapour density**: not determined
- **Evaporation rate**: not determined

9.2. Other information

- **Odour threshold**: not determined
SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
Avoid dust formation.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity
Based on available data, the classification criteria are not met.

Irritation and corrosivity
Based on available data, the classification criteria are not met.

Sensitising effects
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
The product is not: Ecotoxic

12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT and vPvB assessment
This substance does not meet the criteria for classification as PBT or vPvB.
12.6. Other adverse effects
No information available.

Further information
Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Dispose of waste according to applicable legislation. Do not empty into drains.

Contaminated packaging
Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information
Water contaminating class (D): - - not water contaminating

15.2. Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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 Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Further Information
The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The above information describes exclusively the safety requirements of the product and is based on our present-day 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.