

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## Drain Clean Pearls 1000g

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

#### 1.1. Product identifier

Trade name/designation:

Drain Clean Pearls 1000g

Article No.:

T407003

UFI:

VUEA-2TTE-5POR-6SK3

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

Use of the substance/mixture:

Cleaner

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

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstalzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1</i> )	H314: Causes severe skin burns and eye damage.	
Corrosive to metals ( <i>Met. Corr. 1</i> )	H290: May be corrosive to metals.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS05**

Corrosion

Signal word: Danger

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### Hazard components for labelling:

sodium hydroxide

#### Hazard statements for physical hazards

H290 May be corrosive to metals.

#### Hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

#### Precautionary statements Prevention

P260 Do not breathe dust.

P280 Wear protective gloves/protective clothing and eye protection/face protection.

#### Precautionary statements Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### Precautionary statements Disposal

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

### 2.3. Other hazards

#### Adverse human health effects and symptoms:

May be corrosive to metals. Causes severe skin burns and eye damage.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 1310-73-2 EC No.: 215-185-5 Index No.: 011-002-00-6 REACH No.: 01-2119457892-27	<b>sodium hydroxide</b> Eye Dam. 1 (H318), Met. Corr. 1 (H290), Skin Corr. 1A (H314) ⚠️ Danger <b>Specific concentration limit (SCL)</b> Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$ Skin Corr. 1A; H314: $5\% \leq C < 100\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	50 - 70 weight-%
CAS No.: 7429-90-5 EC No.: 231-072-3	<b>aluminium</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. <b>Acute Toxicity Estimate</b> ATE (oral) > 15,900 mg/kg ATE (inhalation, dust/mist) > 888 mg/L	1 - 5 weight-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Get medical advice/attention if you feel unwell.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

#### Following inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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### In case of skin contact:

Take off immediately all contaminated clothing.  
Wash with plenty of water and soap.  
Get immediate medical advice/attention.

### After eye contact:

Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Get immediate medical advice/attention.

### Following ingestion:

Rinse mouth.  
Do NOT induce vomiting.  
Get immediate medical advice/attention.

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

Causes severe skin burns and eye damage.

### 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.  
Carbon dioxide, Foam, Dry extinguishing powder, Water mist

#### Unsuitable extinguishing media:

Water jet

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

Inhalation of hazardous decomposing (pyrolysing) products may cause serious damage to health.

#### Hazardous combustion products:

Carbon oxides, Carbon dioxide, toxic gases

### 5.3. Advice for firefighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool endangered containers with water spray.  
Wear self-contained breathing apparatus. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Ensure good ventilation/extraction at the workplace. Wear personal protection equipment (refer to section 8). Do not breathe dust. Avoid contact with eyes and skin. Avoid dust formation.

##### Emergency procedures:

Wear protective equipment. Keep unprotected persons away.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Use personal protection equipment. In case of inadequate ventilation wear respiratory protection.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### Other information:

Take up mechanically, placing in appropriate containers for disposal. Dispose of contaminated material as waste according to section 13.

### 6.4. Reference to other sections

See section 7 for further information on safe handling.

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For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Provide adequate ventilation. Avoid contact with eyes and skin. Do not breathe dust. Avoid dust formation. Use personal protection equipment.

##### Advices on general occupational hygiene

The usual precautions when handling chemicals must be observed.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

Take off contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels:

Store in a corrosion resistant container with a resistant inner liner. Keep/Store only in original container.

Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.

#### Hints on storage assembly:

Keep away from food, drink and animal feed. Do not eat, drink or smoke when using this product.

Do not store together with: Metal

**Storage class (TRGS 510, Germany):** 8B – Non-combustible corrosive substances

#### Further information on storage conditions:

minimum storage temperature: 5°C

maximum storage temperature: 30°C

### 7.3. Specific end use(s)

#### Recommendation:

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### \* 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5	② 4 mg/m <sup>3</sup> ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)
MAK (AT)	<b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5	① 2 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)
MAK (AT) from 11 Sept 2007	<b>aluminium</b> CAS No.: 7429-90-5 EC No.: 231-072-3	① 10 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)
MAK (AT) from 11 Sept 2007	<b>aluminium</b> CAS No.: 7429-90-5 EC No.: 231-072-3	② 20 mg/m <sup>3</sup> ⑤ (einatembare Fraktion, max. 2x60 min./Schicht)
MAK (AT) from 11 Sept 2007	<b>aluminium</b> CAS No.: 7429-90-5 EC No.: 231-072-3	① 5 mg/m <sup>3</sup> ⑤ (alveolengängige Fraktion)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT) from 11 Sept 2007	aluminium CAS No.: 7429-90-5 EC No.: 231-072-3	② 10 mg/m <sup>3</sup> ⑤ (alveolengängige Fraktion, max. 2x60 min./Schicht)

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
aluminium CAS No.: 7429-90-5 EC No.: 231-072-3	3.72 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
aluminium CAS No.: 7429-90-5 EC No.: 231-072-3	3.72 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
aluminium CAS No.: 7429-90-5 EC No.: 231-072-3	7.9 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic effects

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Ensure good ventilation/extraction at the workplace.

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Safety glasses or goggles (EN 166).

#### Skin protection:

Hand protection:

Wear protective gloves. (EN 374)

NBR (Nitrile rubber); 0,35mm

Butyl caoutchouc (butyl rubber); 0,5mm

The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

Body protection:

Wear suitable protective clothing when working.

#### Respiratory protection:

Where exposure by inhalation may occur through use, respirators are recommended. Filter type: P2

#### Thermal hazards:

No further relevant information available.

#### Other protection measures:

Care must be taken to avoid direct contact with the product, skin and eye contact, accidental ingestion and spillage. It is forbidden to eat or smoke during work. Hand washing facilities during breaks and hot water baths after work should be provided. Afterwards, hands should be coated with skin protection cream.

### 8.2.3. Environmental exposure controls

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

**Physical state:** solid

**Colour:** white

**Odour:** characteristic

**flammability:** No data available

##### Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	14	② 10%
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Evaporation rate	No data available	
Vapour pressure	No data available	
Density	No data available	
Bulk density	≈ 1,270 g/L	
Water solubility	completely miscible	

##### particle characteristics:

No data available

#### 9.2. Other information

No data available

### 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

May be corrosive to metals.

#### 10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

#### 10.5. Incompatible materials

strong oxidants, strong acids, Alkalis, metals

#### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

Possible release of toxic fumes. Nitrogen oxides. Aluminium oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Ratte)
<b>aluminium</b> CAS No.: 7429-90-5 EC No.: 231-072-3
<b>LD<sub>50</sub> oral:</b> >15,900 mg/kg (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >888 mg/L 4 h (Rat)

##### Acute oral toxicity:

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

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### Acute dermal toxicity:

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

### Acute inhalation toxicity:

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

### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

### Serious eye damage/irritation:

Causes serious eye damage.

### Respiratory or skin sensitisation:

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

### Germ cell mutagenicity:

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

### Carcinogenicity:

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

### Reproductive toxicity:

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.

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No further relevant information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5
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<b>LC<sub>50</sub></b> : 125 mg/L 4 d (fish, <i>Gambusia affinis</i> (Mosquito fish))
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<b>EC<sub>50</sub></b> : 40.4 mg/L 2 d (crustaceans, <i>Ceriodaphnia dubia</i> )
--

<b>aluminium</b> CAS No.: 7429-90-5 EC No.: 231-072-3
---

<b>EC<sub>50</sub></b> : 40.4 mg/L 2 d (crustaceans, <i>Ceriodaphnia</i> sp.)
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### Assessment/classification:

There are no data available on the mixture itself.

### 12.2. Persistence and degradability

<b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5
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<b>Biodegradation:</b> Yes, rapidly
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### Abiotic degradation:

No further relevant information available.

### Biodegradation:

No further relevant information available.

### 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

### 12.5. Results of PBT and vPvB assessment

<b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5
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<b>Results of PBT and vPvB assessment:</b> —
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aluminium CAS No.: 7429-90-5 EC No.: 231-072-3

Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

None of the ingredients are included.

### 12.7. Other adverse effects

No further relevant information available.

## SECTION 13: Disposal considerations





### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains.

### 13.2. Additional information

Ordinance of the Federal Minister of Agriculture, Forestry, Environment and Water Management on the Avoidance and Recovery of Packaging Waste and Certain Residual Goods (Packaging Ordinance 2014), as amended. Hazardous waste according to the Waste Catalogue Ordinance. Ordinance of the Federal Minister of Agriculture, Forestry, Environment and Water Management on a List of Wastes (List of Wastes Ordinance), as amended. Decision 2000/532/EC on the provision of a list of wastes with subsequent amendments. Federal Act on Sustainable Waste Management (Waste Management Act 2002 - AWG 2002), as amended.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1823	UN 1823	UN 1823	UN 1823
<b>14.2. UN proper shipping name</b>			
SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE, SOLID
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Limited quantity (LQ):</b> 1 kg <b>Excepted Quantities (EQ):</b> E2 <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C6 <b>Tunnel restriction code:</b> (E)	<b>Limited quantity (LQ):</b> 1 kg <b>Excepted Quantities (EQ):</b> E2 <b>Classification code:</b> C6	<b>Special Provisions:</b> - <b>Limited quantity (LQ):</b> 1 kg <b>Excepted Quantities (EQ):</b> E2 <b>EmS-No.:</b> F-A, S-B	<b>Limited quantity (LQ):</b> Y844 <b>Excepted Quantities (EQ):</b> E2 <b>Remark:</b> IATA Packing Instructions - Passenger: 859 IATA Maximum Quantity - Passenger: 15 kg IATA-Verpackungsanweisung - Cargo: 863 IATA Maximum Quantity - Cargo: 50 kg

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable



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### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

###### Authorisations:

Does not contain a REACH candidate substance. Does not contain a substance listed in REACH Annex XIV.

##### 15.1.2. National regulations

No data available

#### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### \* 16.1. Indication of changes

8.1.	Control parameters
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

#### \* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ERC	Environmental Release Category
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

#### 16.3. Key literature references and sources for data

No data available

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1</i> )	H314: Causes severe skin burns and eye damage.	
Corrosive to metals ( <i>Met. Corr. 1</i> )	H290: May be corrosive to metals.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

### 16.6. Training advice

No data available

### 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

\* Data changed compared with the previous version.