Drain Clean 750ml

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

1.1. Product identifier

Trade name/designation:

Drain Clean 750ml

Article No.:
T492000

UFI:
4073-PG0E-7VM2-AAFU

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

Use of the substance/mixture:
Pipe cleaner liquid

*
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 *(Skin Corr. 1A)*	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	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

Hazard components for labelling:
Sulphuric acid

Hazard statements for health hazards	
H314	Causes severe skin burns and eye damage.

Supplemental hazard information: none

Precautionary statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
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 [or shower].
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/ .

2.3. Other hazards

Adverse environmental effects:

This mixture does not contain substances classified as PBT or vPvB substances.
The product does not contain any substances with endocrine-disrupting properties.

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.: 7664-93-9 EC No.: 231-639-5 Index No.: 016-020-00-8 REACH No.: 01-2119458838-20	**Sulphuric acid** Eye Dam. 1 (H318), Skin Corr. 1A (H314) Danger **Specific concentration limit (SCL)** Skin Corr. 1A; H314: C ≥ 15% Skin Irrit. 2; H315: 5% ≤ C < 15% Eye Dam. 1; H318: C ≥ 15% Eye Irrit. 2; H319: 5% ≤ C < 15% **Acute Toxicity Estimate** ATE (oral) 2,140 mg/kg ATE (inhalation, dust/mist) 375 mg/L	95 – ≤ 100 Vol-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

A doctor must be consulted immediately. The person concerned shall be carried outside, away from the scene of the accident. If breathing stops, artificial respiration shall be given. The appropriate measures for the rescuer are to be taken.

In case of skin contact:

Soiled, soaked clothing must be taken off. One must take a shower immediately. A doctor must be consulted immediately.

After eye contact:

Any contact lenses must be removed. One must immediately and extensively wash with water for at least 30 / 60 minutes, opening the eyelids well. A doctor must be consulted immediately.

Following ingestion:

The largest possible amount of water must be administered. Vomiting must not be induced unless specifically ordered by the doctor.

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

There is no known specific information on symptoms and effects caused by this product.

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

No further details.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Carbon dioxide, Foam, Extinguishing powder, Water mist

Unsuitable extinguishing media:
No information available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:
Avoid inhalation of combustion products.

5.3. Advice for firefighters

The containers shall be cooled with water jets to prevent the decomposition of the product and the formation of potentially harmful substances. Complete fire protective clothing shall be worn at all times. Extinguishing water that is not allowed to enter the sewage pipes shall be collected. The water used for extinguishing and the fire residues shall be taken up in accordance with the regulations in force.

Personal protection:
Normal firefighting clothing, e.g. an open-circuit compressed air respirator (EN 137) firefighting kit (EN469), firefighting gloves (EN 659) and firefighting boots (HO A 29 or A30)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
The leakage may be blocked if there is no danger. Appropriate protective devices (including personal protective devices as per para. 8 from the safety instructions) shall be put on to prevent contamination of skin, eyes and personal clothing. These instructions apply to both reprocessing supervisors and emergency stop interventions.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Prevent the product from entering waste water, surface water, ground water.

6.3. Methods and material for containment and cleaning up

Other information:
The spilled product must be sucked into a suitable container. The container to be used shall be tested for compatibility with the product, subject to section 10. The residual product shall be absorbed with inert absorbent material. Adequate ventilation of the affected area shall be provided. Contaminated material must be disposed of in accordance with the regulations in section 13.

6.4. Reference to other sections

Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Do not handle the product until you have read all other sections of this safety sheet. Avoid dispersal of the product in the environment. Do not eat, drink or smoke while using the product. Before entering the eating area, remove wetted clothing and protective devices.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Store only in original containers. Keep the containers closed, in a well-ventilated place, protected from direct sunlight. The containers must be kept away from any incompatible materials, referring to section 10.

Storage class (TRGS 510, Germany): 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:
No further details.

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
IOELV (EU)	**Sulphuric acid** CAS No.: 7664-93-9 EC No.: 231-639-5	① 0.05 mg/m³
MAK (AT) from 25 Sept 2018	**Sulphuric acid** CAS No.: 7664-93-9 EC No.: 231-639-5	① 0.1 mg/m³ ⑤ (einatembare Fraktion)
MAK (AT) from 25 Sept 2018	**Sulphuric acid** CAS No.: 7664-93-9 EC No.: 231-639-5	② 0.2 mg/m³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)

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
Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	0.05 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	0.1 mg/m³	① DNEL worker ② Acute - inhalation, local effects

Substance name	PNEC Value	① PNEC type
Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	0.03 mg/L	① PNEC aquatic, freshwater
Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	0.002 mg/kg	① PNEC sediment, freshwater
Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	0.002 mg/kg	① PNEC sediment, marine water
Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5	8.8 mg/L	① PNEC secondary poisoning

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Emergency stop showers with face-eye-rinsing are to be provided.

8.2.2. Personal protection equipment

Eye/face protection:

The use of full-head shields or protective shields in combination with penetration-proof goggles is recommended (ref. standard EN 166).

Skin protection:

The hands must be protected with category III work gloves (ref. standard EN 374). For the final choice of material for the work gloves, the following aspects must be included: Compatibility, degradation, breaking time and permeability. In the case of preparations, the work glove resistance to chemical agents must be tested before use, as it is unpredictable. Glove wear time is conditioned by exposure time and modes of use.
Work clothing with long sleeves and category III accident protection footwear must be worn (see Regulation 2016/425 and standard EN ISO 20344). After taking off the protective clothing, one must wash with soap and water.

Respiratory protection:

If the threshold value (e.g. TLV-TWA) of the substance or one or more substances contained in the product is exceeded, it is advisable to wear a mask with a type B filter, the class of which (1, 2 or 3) should be selected according to the highest concentration used. (Ref. standard EN 14387). In the presence of gases or vapours of a different nature and/or gases or vapours containing particles (aerosol, smoke, mist, etc.), use combined filters.
If the technical measures taken are not sufficient to reduce the exposure of the worker to the thresholds considered, the use of respiratory protective devices is necessary. The protection provided by the mask is limited in any case. If the substance under consideration is odourless or its odour threshold exceeds the corresponding TLV-TWA, or in case of emergency, an open-circuit self-operated compressed air respirator (ref. standard EN137) or an external air intake respirator (ref. standard EN138) must be worn. For the correct selection of the respiratory protective device, refer to standard EN 529.

Other protection measures:

Considering that appropriate protective measures should always take precedence over personal protective clothing, ensure that the workplace is well ventilated by effective local exhaust ventilation. For the selection of personal protective equipment, the trusted chemical manufacturers may need to be consulted. The personal protective equipment must be CE marked to indicate its suitability for the applicable regulations.

8.2.3. Environmental exposure controls

Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

SECTION 9: Physical and chemical properties

*

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: brown
Odour: characteristic
flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	< 1	20 °C	① ASTM E 70 ② Concentration: 20%
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	300 °C		① ASTM D 1120
Flash point	*No data available*		
Evaporation rate	*No data available*		

Drain Clean 750ml

Parameter	Value	at °C	① Method ② Remark
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	1.83 kg/L	20 °C	① ASTM D 1298
Bulk density	*not applicable*		
Water solubility	easily soluble	20 °C	
Partition coefficient: n-octanol/water	*not applicable*		
Dynamic viscosity	*No data available*		
Kinematic viscosity	*No data available*		

particle characteristics:
not applicable

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No special reaction hazards with other substances under normal conditions of use.

sulphuric acid
Decomposes at 450°C/842°F

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
None in particular. However, the usual caution with chemical products must be observed.

10.5. Incompatible materials
Incompatible with: flammable substances, reducing substances, basic substances, metals, organic substances, water.

10.6. Hazardous decomposition products
Kann entwickeln: Schwefeloxide.

SECTION 11: Toxicological information

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

Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5
LD_{50} oral: 2,140 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): 375 mg/L 4 h (Rat)

Acute oral toxicity:
Not classified (No relevant ingredient)

Acute dermal toxicity:
Not classified (No relevant ingredient)

Acute inhalation toxicity:
Not classified (No relevant ingredient)

Skin corrosion/irritation:
Corrosive

Serious eye damage/irritation:
Causes serious eye damage.

Respiratory or skin sensitisation:
Does not fall under the classification criteria of this hazard class

Germ cell mutagenicity:
Does not fall under the classification criteria of this hazard class

Carcinogenicity:
Does not fall under the classification criteria of this hazard class

Reproductive toxicity:
Does not fall under the classification criteria of this hazard class

STOT-single exposure:
Does not fall under the classification criteria of this hazard class

STOT-repeated exposure:
Does not fall under the classification criteria of this hazard class

Aspiration hazard:
Does not fall under the classification criteria of this hazard class

Additional information:
As no experimental toxicological data on the product are available, the possible health risks were evaluated on the properties of the substances contained according to the criteria of the reference standards for classification. For the evaluation of toxicological effects in case of product exposure, the concentrations of the individual pollutants possibly listed under para. 3 have to be considered.

11.2. Information on other hazards

Other information:
According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

SECTION 12: Ecological information

12.1. Toxicity

Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5
LC_{50}: >16 mg/L 4 d (fish)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
NOEC: 0.31 mg/L (fish, Salvelinus fontinalis)
NOEC: 0.15 mg/L (crustaceans)

12.2. Persistence and degradability

Additional information:
Water solubility 1000 - 10000 mg/l
Persistence and degradability: No further details.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water:
not applicable

12.4. Mobility in soil

No further details.

12.5. Results of PBT and vPvB assessment

Sulphuric acid CAS No.: 7664-93-9 EC No.: 231-639-5
Results of PBT and vPvB assessment: —

Based on the available information, the product does not contain any PBT or vPvB substances in content percentages ≥ 0.1%.

12.6. Endocrine disrupting properties
According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

12.7. Other adverse effects
No further details.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

Waste treatment options
Appropriate disposal / Package:
Contaminated packaging material must be sent for recycling or disposal in accordance with the country's waste management regulations.

13.2. Additional information
The transport of the waste may be subject to ADR.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1830	UN 1830	UN 1830	UN 1830
14.2. UN proper shipping name			
SULPHURIC ACID	Sulphuric acid	SULPHURIC ACID	SULPHURIC ACID
* **14.3. Transport hazard class(es)**			
 8	 8	 8	 8
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Limited quantity (LQ): 1 L **Excepted Quantities (EQ):** E2 **Hazard identification number (Kemler No.):** 80 **Classification code:** C1 **Tunnel restriction code:** (E)	**Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E2 **Classification code:** C1	**Special Provisions:** - **Limited quantity (LQ):** 1 L **Excepted Quantities (EQ):** E2 **EmS-No.:** F-A, S-B	**Limited quantity (LQ):** Y840 **Excepted Quantities (EQ):** E2 **Remark:** IATA-Verpackungsanweisung - Cargo: 855 IATA Maximum Quantity - Cargo: 30 L IATA Packing Instructions - Passenger: 851 IATA Maximum Quantity - Passenger: 1 L

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006
Product - point 3; Substances contained - point 75

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.
Regulation (EU) 2019/1148 (marketing and use of explosives precursors)
Restricted explosives precursor The acquisition, transfer, possession or use by members of the general public of the restricted explosives precursor in question shall be subject to a restriction in accordance with Article 5(1) and (3). Restricted explosives precursors shall not be made available to, transferred to, possessed by or used by members of the general public. The acquisition, transfer, possession or use of the regulated explosives precursor in question by members of the general public shall be subject to reporting requirements in accordance with Article 9. All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

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**

1.3.	Details of the supplier of the safety data sheet
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
14.3.	Transport hazard class(es)
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information
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
ASTM	American Society for Testing and Materials
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EG	European Community
EN	European Standard
ES	Exposure scenario
EU	European Union
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC_{50}	Lethal (fatal) Concentration 50%

LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
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
UFI	Unique Formula Identifier
UN	United Nations

16.3. Key literature references and sources for data
No data available

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 *(Skin Corr. 1A)*	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	H318: Causes serious eye damage.	

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

Hazard statements	
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.