

Safety data sheet
ACCORDING TO COMMISSION REGULATION (EU) 2020/878
amending Annex II to Regulation (EC) No 1907/2006

Printing date 17.02.2023

Version number 2.0 (replaces version 1.0)

Revision: 17.02.2023

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

- **1.1 Product identifier**
- **Trade name:** Mole Drain Opener Granules
- **UFI:** C1KJ-5DRP-HQ3K-2FKH
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:**
Cleaning material/ Detergent
Tube cleaner/ pipe cleaning agent
- **Uses advised against:**
Do not use on aluminium.
Do not use on gold-plated fittings.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
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- **1.4 Emergency telephone number:**
+49 40 64 60 429 - 0 (Mo. to Fr. 8:00 - 17:00) or 112
+ 48 76 870 30 31 (Mo. to Fr. 8:00 - 16:00) or 112

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

- Met. Corr. 1 H290 May be corrosive to metals.
- Skin Corr. 1A H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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Hazard pictograms


GHS05

Signal word *Danger*
Hazard-determining components of labelling:

SODIUM HYDROXIDE (sodium hydroxide)

Hazard statements

 H290 *May be corrosive to metals.*

 H314 *Causes severe skin burns and eye damage.*
Precautionary statements

 P101 *If medical advice is needed, have product container or label at hand.*

 P102 *Keep out of reach of children.*

 P234 *Keep only in original packaging.*

 P260 *Do not breathe dust.*

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

 P301+P330+P331 *IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.*

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

 P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

 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 doctor.*


 P405 *Store locked up.*

 P411 *Store at temperatures not exceeding 30°C.*

 P501 *Dispose of contents/container in accordance with national regulations to disposal.*
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: *Mixture: consisting of the following components.*
Dangerous components:

CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27	SODIUM HYDROXIDE (sodium hydroxide)  <i>Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318</i> Specific concentration limits: <i>Skin Corr. 1A; H314: C ≥ 5 %</i> <i>Skin Corr. 1B; H314: 2 % ≤ C < 5 %</i> <i>Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %</i> <i>Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %</i>	≥30- <60%
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Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Rinse with warm water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Water spray
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Avoid skin and eye contact.
Slipping hazard due to leaking product.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

No special measures required.

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Keep away from frost and heat.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

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

· **Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

Store and transport uprightly.

· **Storage class:** 8 B

· **7.3 Specific end use(s)**

The product is a cleaning product for household use. Observe the warnings and instructions on the packaging.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **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.

· **DNELs**

1310-73-2 SODIUM HYDROXIDE (sodium hydroxide)

Inhalative	DNEL - long-term, inhaled, local effect	1 mg/m ³ (worker)
	DNEL - short-term, inhaled, local effect	1 mg/m ³ (consumer)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further relevant information available.

· **Individual protection measures, such as personal protective equipment**

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

Due to missing tests, it is not possible to give exact information about the glove material for the product.

Recommended is therefore:

Only use chemical-protective gloves with CE-labelling of category III.

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· **Material of gloves**

Recommended for contact with the product are protective gloves of chemical protection category III made of special nitrile (material thickness > 0.1 mm). Protective gloves should be tested for workplace specific suitability (e.g. mechanical and thermal resistance, antistatic, etc.). For first signs of wear, the protective gloves must be replaced immediately.

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.

Penetration time > 480 minutes recommended. Named penetration times can be significantly shorter in practice.

· **Eye/face protection**



Tightly sealed goggles

· **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.

Avoid contact with the eyes and skin.

· **Environmental exposure controls**

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

White

· **Odour:**

Odourless

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not determined.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

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· Decomposition temperature:	<i>Not determined.</i>
· pH at 20 °C	<i>>12 (1%)</i>
· Viscosity:	
· Kinematic viscosity	<i>Not applicable.</i>
· Dynamic:	<i>Not applicable.</i>
· Solubility	
· water:	<i>Soluble.</i>
· Partition coefficient n-octanol/water (log value)	<i>Not determined.</i>
· Vapour pressure:	<i>Not applicable.</i>
· Density and/or relative density	
· Density:	<i>Not determined.</i>
· Relative density	<i>Not determined.</i>
· Bulk density:	<i>1,000-1,500 kg/m³</i>
· Vapour density	<i>Not applicable.</i>
· Particle characteristics	<i>See item 3.</i>

9.2 Other information

· Appearance:	
· Form:	<i>Granulate</i>
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	<i>Product is not selfigniting.</i>
· Explosive properties:	<i>Product does not present an explosion hazard.</i>
· Solvent content:	
· Solids content:	<i>>99.8 %</i>
· Change in condition	
· Evaporation rate	<i>Not applicable.</i>

Information with regard to physical hazard classes

· Explosives	<i>Void</i>
· Flammable gases	<i>Void</i>
· Aerosols	<i>Void</i>
· Oxidising gases	<i>Void</i>
· Gases under pressure	<i>Void</i>
· Flammable liquids	<i>Void</i>
· Flammable solids	<i>Void</i>
· Self-reactive substances and mixtures	<i>Void</i>
· Pyrophoric liquids	<i>Void</i>
· Pyrophoric solids	<i>Void</i>
· Self-heating substances and mixtures	<i>Void</i>
· Substances and mixtures, which emit flammable gases in contact with water	<i>Void</i>
· Oxidising liquids	<i>Void</i>
· Oxidising solids	<i>Void</i>
· Organic peroxides	<i>Void</i>
· Corrosive to metals	<i>May be corrosive to metals.</i>
· Desensitised explosives	<i>Void</i>

SECTION 10: Stability and reactivity

· **10.1 Reactivity** *No further relevant information available.*

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- **10.2 Chemical stability** Product is stable.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Corrosive action on metals.
- **10.4 Conditions to avoid** Keep away from frost and heat.
- **10.5 Incompatible materials:** Metals such as aluminum, zinc and tin.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

1310-73-2 SODIUM HYDROXIDE (sodium hydroxide)

Oral LD50 >2,000 mg/kg (rat)

- **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**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

1310-73-2 SODIUM HYDROXIDE (sodium hydroxide)

Toxicity (fish): LC50	45.4 mg/l, 96 h (Oncorhynchus mykiss) 99 mg/l, 96 h (Lepomis macrochirus)
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Toxicity (Daphnia): EC50	>100 mg/l, 48 h (Daphnia magna)
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- **12.2 Persistence and degradability**
No information for the product available. The contained surfactants are readily biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.

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- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**

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

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**

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

Empty the container thoroughly.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **Waste disposal key:**

20 01 29

15 01 10

- **Uncleaned packaging:**

- **Recommendation:**

Non contaminated packagings may be recycled.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR, IMDG, IATA**

UN1823

- **14.2 UN proper shipping name**

- **ADR**

1823 SODIUM HYDROXIDE, SOLID mixture

- **IMDG, IATA**

SODIUM HYDROXIDE, SOLID mixture

- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**



- **Class**

8 Corrosive substances.

- **Label**

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· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g 2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 1823 SODIUM HYDROXIDE, SOLID MIXTURE, 8, II

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 No further relevant information available.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

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- **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)**
- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on our present knowledge. In particular, the information derive the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. The information does not constitute any guarantee of product quality and/or quality features.

Relevant phrases

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

Training hints

- When manufacturing and distributing the product: information and instruction in handling, safety and hygiene.
- When transporting the product: information and instruction in ADR.

Classification according to Regulation (EC) No 1272/2008

Calculation method

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS: Regulatory Affairs**Contact:**

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Date of previous version: 06.10.2021**Version number of previous version:** 1.0**Abbreviations and acronyms:**

- ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
- MARPOL: International Convention for the Prevention of Marine Pollution from Ships (marine pollution)
- IBC: Intermediate Bulk Container
- IMO: International Maritime Organisation
- ECHA: European Chemicals Agency
- IVIS: In Vitro Irritancy Score
- CLP regulation: "Classification, Labelling and Packaging" regulation, regulation (EC) Nr. 1272/2008
- REACH (regulation): "Registration, Evaluation, Authorisation and Restriction of Chemicals" regulation, regulation (EC) Nr. 1907/2006
- CE: Conformité Européenne (European Conformity)
- Reg. no.: Registration number
- ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
EC50: Effective concentration, 50 percent
WEL: Workplace Exposure Limits
NOAEL (NOAEC): No observed adverse effect level (concentration)
NOEL (NOEC): No observed effect level (concentration)
NLP: No-Longer-Polymer
OECD: Organisation for Economic Co-operation and Development
TG: Test Guideline
BCOP: Bovine Corneal Opacity and Permeability
Met. Corr. 1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
*** Data compared to the previous version altered.**

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