Product	Drain Buster		
<b>Revision date</b>	1 <sup>st</sup> April 2020		
Revision	1		



# Safety Data Sheet (SDS)

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

#### **1.1 Product identifier**

Product name	Drain Buster			
Synonyms, Trade names	No information available.			

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

Identified uses	No specific uses identified.
Uses advised against	No uses advised against are identified.

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

Supplier	Emerald Clover Ltd.
••	Drumduffy
	Drumkeeran
	Co. Leitrim
	N41 T998
	Ireland
	Tel: 071 96 48008
Contact person	info@emeraldclover.ie
<b>1.4 Emergency telephone number</b>	
Emergency telephone	Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9, Tel 01 8092566

### Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical and chemical hazards	Me. Corr 1 - H290
Human health	Skin Corr. 1A - H314, Eye Dam. 1 - H318
Environment	Not classified

#### 2.2 Label elements

#### Contains

Label in accordance with (EC) no. 1272/2008



sodium hydroxide

Signal word

Danger

**Hazard statements** 

**Precautionary statements** 

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

Prevention
P234 Keep only in original container.
P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
P280 Wear protective gloves/ protective clothing/eye protection/face protection.
Response
P310 Immediately call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.

## 2.3 Other hazards

None known.

## Section 3: Composition/identification of ingredients

### 3.1 Substance

Not applicable.

# 3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5 REACH Reg No.: 01-2119457892-27-XXXX		30-60%
The full text for all hazard statem	ents are displayed in sect	ion 16.	

spiay

**Composition comments** 

The data shown are in accordance with the latest EC Directives.

## Section 4: First aid measures

### **4.1 Description of first aid measures**

General information	Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.
Inhalation	If this product is Inhaled, move the exposed person to fresh air promptly. If not breathing, give artificial respiration. If breathing is diffiicult, give oxygen. Seek medical attention.
Ingestion	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Give plenty of water or other fluids to drink. Do not induce vomiting. Obtain medical attention urgently. If vomiting occurs spontaneously, keep head low and/or keep airway clear.
Skin contact	Immediately wash with water, preferably under a shower, removing contaminated clothing while washing proceeds. Obtain medical attention if irritation persists or if blistering occurs. Contaminated clothing should be washed before re-use.
Eye contact	Do not rub eye. If a contact lens is present, DO NOT delay flushing to attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse for thirty minutes holding the eye open if necessary. Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. If irritation persists, seek medical attention immediately.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	There may be shortness of breath with a burning sensation in the throat.
Ingestion	Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract, and possible burns.
Skin contact	Corrosive! Can cause redness, pain, and severe skin burns.
Eye contact	Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.

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

Notes to the physician	Treat symptomatically.
Notes to the physician	i i cat symptomatically.

## Section 5: Fire-fighting measures

## 5.1 Extinguishing media

Extinguishing mediaFoam, extinguishing powder, in cases of larger fires, water spray should be used.Unsuitable extinguishing mediaHigh volume water jet.

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

Hazardous combustion products Unusual fire & explosion hazards Specific hazards	During fire, toxic gases (CO, CO2) are formed. No unusual fire or explosion hazards noted. If heated, corrosive vapours may be formed.
5.3 Advice for firefighters	
Special fire fighting procedures	Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Do not scatter spilled material with more water than needed to fight the fire
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### Section 6: Accidental release measures

## **<u>6.1 Personal precautions, protective equipment and emergency procedures</u>**

Personal precautions For emergency responders	Read and follow manufacturer's recommendations. Do not touch or walk through spilled material. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Evacuate and ventilate area. Only trained and properly protected personnel must be involved in clean-up operations. For personal protection, see section 8. Follow safe handling advice and personal protective equipment recommendations for normal use of product.
6.2 Environmental precautions	
Environmental precautions	Discharge into the environment must be avoided due to pH shift. If spillage or contaminated washings cause contamination of water courses, drains or vegetation, inform local authority/relevant authorities.
6.3 Methods and material for containme	ent and cleaning up
Spill clean up methods	DO NOT touch spilled material! Stop leak if possible without risk. Small spillages: Dilute carefully with water. For larger scale spills: Absorb in vermiculite, dry sand or earth and place into containers Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container Flush the area with water
6.4 Reference to other sections	
Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
Section 7: Handling and storage	
7.1 Precautions for safe handling	
Handling	Do not mix with other chemicals. Keep container tightly closed. Provide good ventilation. Eliminate all sources of ignition. Use proper personal protection when handling (refer to Section 8).
7.2 Conditions for safe storage, including	ng any incompatibilities
Storage precautions	Store in sealed original container. Store in a cool, dry place. Keep container in a well ventilated place.
Storage class	Corrosive storage.

## 7.3 Specific end use(s)

Specific end use(s) Usage description The identified uses for this product are detailed in Section 1.2. Use only according to directions.

## Section 8: Exposure controls/Personal protection

### **<u>8.1 Control parameters</u>**

Component	STD	TWA (8 Hrs)	STEL (15mins)		Notes
sodium hydroxide	OEL			2 mg/m <sup>3</sup>	

### Ingredient comments

Ireland, Occupational Exposure Limits 2016.

### **8.2 Exposure Controls**

**Protective equipment** 



Engineering measures	Provide adequate ventilation, including appropriate local extraction, to ensure that the
	defined occupational exposure limit is not exceeded.
<b>Respiratory equipment</b>	Where risk assessment shows air-purifying respirators are appropriate use a properly fitted,
	air-purifying or air-fed respirator complying with an approved standard if a risk assessment
	indicates this is necessary. Respirator selection must be based on known or anticipated
	exposure levels, the hazards of the product and the safe working limits of the selected
	respirator. Recommended: self-contained breathing apparatus (SCBA), use a full-face air
	supplied respirator with type ABEK (EN 14387) cartridges as a backup to engineering
	controls. Recommended filter type: P2. Refer to manufacturer for specific advice.
Hand protection	Gloves must be inspected prior to use. Use proper glove removal technique (without
	touching glove's outer surface) to avoid skin contact with this product. Dispose of
	contaminated gloves after use in accordance with applicable laws and good laboratory
	practices. Wear chemical protective gloves that are in accordance with EN 374.
Eye protection	Wear safety goggles/face shield in accordance with EN166. Eye protection equipment should
	be tested and approved according to regulations applicable, like EN 166 (EU).
Other protection	Complete suit protecting against chemicals, protective clothing, PVC or rubber footwear. The
	type of protective equipment must be selected according to the concentration and amount of
	the dangerous substance applicable to the workplace. Select appropriate protective clothing
	based on chemical resistance data and an assessment of local exposure potential. Personal
	protective equipment for the body should be selected based on the task being performed and
	the risks involved and should be approved by a specialist before handing this product. The
<b>TT</b>	selected clothing must satisfy the European norm standard EN 943.
Hygiene measures	Wash hands before breaks and immediately after handling the product. When using, do not
	eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin,
Process conditions	eyes and clothing.
FIDLESS CONULTIONS	Keep container tightly sealed when not in use. Ensure that eye flushing systems and safety
	showers are located close by in the work place.

## **Section 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour	Liquid. Colourless. Odourless.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	ca. 14 ( 20 °C)

	pH-Value, Diluted solution	No information available.
	Melting point	-17 °C 10% solution 12 °C 50% solution
	Initial boiling point and boiling range	105 °C 10% solution 145 °C 50% solution
	Flash point	No information available.
	Evaporation rate	No information available.
	Flammability state	No information available.
	Flammability limit - lower(%)	No information available.
	Flammability limit - upper(%)	No information available.
	Vapour pressure	21 hPa (20 °C) 12% solution
	Vapour density (air=1)	No information available.
	Relative density	ca. 1.0538 g/cm3 (20 °C) 5% solution ca. 1.175 g/cm3 (20 °C) 15% solution ca. 1.274 g/cm3 (20 °C) 25% solution ca. 1.34 g/cm3 (20 °C) 30% solution ca. 1.38 g/cm3 (20 °C) 35% solution ca. 1.48 g/cm3 (20 °C) 45% solution ca. 1.525 g/cm3 (20 °C) 50% solution ca. 1.2191 g/cm3 (20 °C) 20% solution
	Bulk density	No information available.
	Solubility	Water solubility:1090 g/l (20 °C)
	Decomposition temperature	No information available.
	Partition coeffiicient; n- Octanol/Water	No information available.
	Auto ignition temperature (°C)	No information available.
	Viscosity	79 mPa.s (20 °C)
	Explosive properties	Not classified as explosive.
	Oxidising properties	No information available.
<u>9.2</u>	Other information	
	Molecular weight	No information available.
	Volatile organic compound	No information available.

Section 10: Stability and reactivity	
10.1 Reactivity	
Reactivity	No specific reactivity hazards associated with this product.
<b>10.2</b> Chemical stability	
Stability	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	
Hazardous reactions	For information on hazardous reactions see section 10.1. Corrosive in contact with metals. Attacks metals liberating flammable Hydrogen gas. Exothermic reaction with: Acids.
Hazardous polymerisation Polymerisation description	Unknown. Unknown.

<b>10.4 Conditions to Avoid</b>	
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
10.5 Incompatible materials Materials to avoid	Acids, Light metals, Alcohols, Halogenated hydrocarbon.
10.6 Hazardous decomposition products	

Hazardous decomposition products Hydrogen.

# Section 11: Toxicological information

# **11.1 Information on toxicological effects**

Toxicological information	No toxicological information for the overall finished product.	
Acute toxicity (Oral LD50) Acute toxicity (Dermal LD50) Acute toxicity (Inhalation LD50)	No information available. No information available. No information available.	
Serious eye damage/irritation	Causes severe skin burns and eye damage.	
Skin corrosion/irritation	No information available.	
Respiratory sensitisation Skin sensitisation	No information available. No information available.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	
Specific target organ toxicity - Single exposure:STOT - Single exposureNo information available.Specific target organ toxicity - Repeated exposure:STOT - Repeated exposureNo information available.		
Inhalation Ingestion Skin contact	There may be shortness of breath with a burning sensation in the throat. Exposure to liquid product may cause moderate to severe irritation to inner linings of mouth, esophagus and gastrointestinal tract, and possible burns. Corrosive! Can cause redness, pain, and severe skin burns.	
Eye contact Waste management	Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage. When handling waste, consideration should be made to the safety precautions applying to handling of the product.	
Routes of entry Target organs	No information available. Eyes and skin.	
Aspiration hazards: Reproductive toxicity:	No information available. No information available.	

# Section 12: Ecological information

## 12.1 Toxicity

Acute toxicity - Fish	LC50 125 mg/l (Gambusia affiinis; 96 h) (No guideline followed) LC50 145 mg/l (Poecilia reticulata; 24 h) (No guideline followed)
Acute toxicity - Aquatic invertebrates EC50: 40.4 mg/l (Ceriodaphnia (water flea); 48 h) (No guideline followed)	
Acute toxicity - Aquatic plants	
Acute toxicity - Microorganisms	EC50:22 mg/l (Photobacterium phosphoreum; 15 min) (EPS 1/RM/24)
Chronic toxicity - Fish	No information available.
Chronic toxicity - Aquatic	No information available.
invertebrates	
Chronic toxicity - Aquatic plants	No information available.
Chronic toxicity - Microorganisms	No information available.

	Ecotoxicity Eco toxilogical information	No Ecological information on the finished product. Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
<u>12.2</u>	Persistence and degradability	
	Degradability Biological oxygen demand Chemical oxygen demand	The methods for determining biodegradability are not applicable to inorganic substances. No information available. No information available.
<u>12.3</u>	<b>Bioaccumulative potential</b>	
	Bioaccumulative potential Bioaccumulation factor Partition coefficient; n- Octanol/Water	Does not bioaccumulate. No information available. No information available.
<u>12.4</u>	<u>Mobility in soil</u>	
	Mobility	Mobile in water environment.
<u>12.5</u>	Results of PBT and vPvB assessmen	<u>it</u>
	Results of PBT and vPvB assessment	Substance does not meet the screening criteria for persistency nor bioaccumulation so is neither PBT nor vPvB.
<u>12.6</u>	Other adverse effects	
	Other adverse effects	No information available.
Sect	ion 13: Disposal considerations	
	Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
13.1	Waste treatment methods	
	Disposal methods	Dispose of waste and residues in accordance with local authority requirements. Dispose of sodium hydroxide solutions or materials contaminated with sodium hydroxide using a licensed waste disposal firm.
	ion 14: Transport information	
14.1	UN number UN no. (ADR) UN no. (IMDG) UN no. (IATA)	UN1824 UN1824 UN1824
<u>14.2</u>	<u>UN proper shipping name</u>	
	ADR proper shipping name IMDG proper shipping name IATA proper shipping name	SODIUM HYDROXIDE SOLUTION SODIUM HYDROXIDE SOLUTION SODIUM HYDROXIDE SOLUTION
<u>14.3</u>	<u>Transport hazard class(es)</u>	
	ADR class IMDG class IATA class	8 8 8
	Transport labels	



### 14.4 Packing group

ADR/RID/ADN packing group IMDG packing group IATA packing group	II II II
14.5 Environmental hazards	
ADR	No
IMDG	No
IATA	No
14.6 Special precautions for user	
EMS	F-A, S-B
Emergency action code	A3 A803
Hazard no. (ADR)	80
<b>Tunnel restriction code</b>	(E)

### 14.7 Transport in bulk according to annex II of MARPOL73/78 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 legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.
Approved code of practice	2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).
Chemical safety assessment	No chemical safety assessment has been carried out.

### Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a first issue.
Revision date	1 <sup>st</sup> April 2020
Revision	1
Safety data sheet status	Approved.

#### Hazard statements in full

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

#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.