

Product Shower Buster
 Revision date 1st 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 Shower 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
 info@emeraldclover.ie

Contact person

1.4 Emergency telephone number

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 sodium hydroxide

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



Signal word Danger

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

Precautionary statements **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
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.
 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	Skin Corr. 1A - H314, Eye Dam. 1 - H318, Me. Corr 1 - H290	30-60%

The full text for all hazard statements are displayed in section 16.

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 difficult, 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.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Foam, extinguishing powder, in cases of larger fires, water spray should be used.
Unsuitable extinguishing media	High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	During fire, toxic gases (CO, CO ₂) are formed.
Unusual fire & explosion hazards	No unusual fire or explosion hazards noted.
Specific hazards	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

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	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.
For emergency responders	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.
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6.3 Methods and material for containment 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
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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.
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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).
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7.2 Conditions for safe storage, including 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)	The identified uses for this product are detailed in Section 1.2.
Usage description	Use only according to directions.

Section 8: Exposure controls/Personal protection**8.1 Control parameters**

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

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.

Respiratory equipment

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 handling this product. The 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, eyes and clothing.

Process conditions

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	Liquid.
Colour	Colourless.
Odour	Odourless.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	

pH-Value, Diluted solution No information available.

Melting point

Initial boiling point and boiling range

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

Vapour density (air=1) No information available.

Relative density

Bulk density No information available.

Solubility Water solubility:1090 g/l (20 °C)

Decomposition temperature No information available.

**Partition coefficient; n-
Octanol/Water** No information available.

Auto ignition temperature (°C) No information available.

Viscosity

Explosive properties Not classified as explosive.

Oxidising properties No information available.

9.2 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.

10.2 Chemical stability

Stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

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.

10.4 Conditions to Avoid

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)	No information available.
Acute toxicity (Dermal LD50)	No information available.
Acute toxicity (Inhalation LD50)	No information available.
Serious eye damage/irritation	Causes severe skin burns and eye damage.
Skin corrosion/irritation	No information available.
Respiratory sensitisation	No information available.
Skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	No information available.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	No information available.
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.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Routes of entry	No information available.
Target organs	Eyes and skin.
Aspiration hazards:	No information available.
Reproductive toxicity:	No information available.

Section 12: Ecological information**12.1 Toxicity**

Acute toxicity - Fish	
Acute toxicity - Aquatic invertebrates	
Acute toxicity - Aquatic plants	
Acute toxicity - Microorganisms	
Chronic toxicity - Fish	No information available.
Chronic toxicity - Aquatic invertebrates	No information available.
Chronic toxicity - Aquatic plants	No information available.
Chronic toxicity - Microorganisms	No information available.
Ecotoxicity	No Ecological information on the finished product.
Eco toxicological information	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

12.2 Persistence and degradability

Degradability	The methods for determining biodegradability are not applicable to inorganic substances.
Biological oxygen demand	No information available.
Chemical oxygen demand	No information available.

12.3 Bioaccumulative potential

Bioaccumulative potential	Does not bioaccumulate.
Bioaccumulation factor	No information available.
Partition coefficient; n-Octanol/Water	No information available.

12.4 Mobility in soil

Mobility	Mobile in water environment.
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Substance does not meet the screening criteria for persistency nor bioaccumulation so is neither PBT nor vPvB.
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12.6 Other adverse effects

Other adverse effects	No information available.
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Section 13: Disposal considerations

Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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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.
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Section 14: Transport information**14.1 UN number**

UN no. (ADR)	UN1824
UN no. (IMDG)	UN1824
UN no. (IATA)	UN1824

14.2 UN proper shipping name

ADR proper shipping name	SODIUM HYDROXIDE SOLUTION
IMDG proper shipping name	SODIUM HYDROXIDE SOLUTION
IATA proper shipping name	SODIUM HYDROXIDE SOLUTION

14.3 Transport hazard class(es)

ADR class	8
IMDG class	8
IATA class	8

Transport labels

**14.4 Packing group**

ADR/RID/ADN packing group	II
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IMDG packing group	II
IATA packing group	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
Tunnel restriction code	(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.
Revision comments	This is a first issue.
Revision date	1 st 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.