

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Material name : Exothermic Granules
 Product code :

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

Product use : Drain cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Go Pro Chemicals
 Unit 5B
 Molesworth Business Estate
 Molesworth
 Cambridgeshire
 PE28 0QG

Tel. : 01832 279279

Email (for SDSs) : info@goprochemicals.co.uk

1.4 Emergency tel. no. : 01832 279279

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to GB Classification, Labelling and Packaging of Substances and Mixtures Regulation (CLP):

Physical and Chemical Hazards	Met. Corr. 1; H290
Human health	Skin Corr.1A; H314
Environment	Not classified

2.2 Label elements

Labelling according to GB CLP:

Signal word: Danger Contains: Sodium hydroxide

Pictograms:



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

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Precautionary Statements:

P260 Do not breathe fumes.
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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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 CENTRE or doctor/physician.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

2.3 Other hazards: Hygroscopic (absorbs water from the atmosphere).
PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (CLP)	Content
SODIUM HYDROXIDE	1310-73-2 215-185-5 01-23119457892-27- xxxx	Eye Irrit. 2; H319 ($0.5\% \leq C < 2\%$) Skin Irrit. 2; H315 ($0.5\% \leq C < 2\%$) Skin Corr. 1B; H314 ($2\% \leq C < 5\%$) Skin Corr. 1A; H314 ($C \geq 5\%$) Met. Corr. 1; H290	>90%

Substance classifications are taken from the GB Mandatory Classification and Labelling (MCL) list, or if absent, from supplier's information.

See Section 16 for the full text of the H-statements noted above.

Other ingredients: also contains a small amount of fragrance and dye which do not affect the classification of the product.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash with soap and water and seek **immediate** medical advice.

Eye contact: Flush with water for 15 minutes. Seek **immediate** medical advice.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give water to drink. Seek **immediate** medical advice.

Inhalation: If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2 Most important symptoms and effects, both acute and delayed: Causes burns to skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media: Product is non-flammable; use appropriate media for surrounding areas.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures. Reacts violently with water. Gives off hydrogen by reaction with metals.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment. Wear chemically resistant oversuit.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Mix with absorbent material such as sand, earth, or vermiculite, sweep up carefully and place in a labelled container for disposal in accordance with local/national regulations. Avoid dust formation.

6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of any vapours or dust generated in use. Handle with care. If diluting, always add the product to water; never add water to the product – risk of exothermic reaction and hazardous splash back.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Protect from frost, heat and sunlight. Incompatible with acids and oxidising agents. Keep away from food, drink and animal feed.

7.3 Specific end use(s): No information available.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference	DNEL (Workers)	Reference
Sodium hydroxide	-	2 mg/m ³	EH40/2005	1 mg/m ³	Manufacturer

DNEL/PNEC: No information available

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: If Workplace Exposure Limit(s) listed above are exceeded, and in the case of dust or aerosol formation, respiratory protection may be required, in which case use respirators fitted with type P2 filters.

Hand protection: Chemically-resistant gloves based on PVC, Neoprene, natural or butyl rubber; check with glove manufacturer for specific advice.

Eye protection: Tightly-fitting chemically resistant goggles should be worn.

Skin and body protection: Chemically resistant apron and protective overalls.

Hygiene measures: Ensure eye wash bottles are available for emergencies. Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Other than for the product's normal use as a drain cleaner, do not discharge excess product into drains or rivers. If contamination to waterways has occurred, inform local authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Pink granules
Odour	Fragranced
Odour Threshold	No data available
Flammability	Non-flammable
Flash point	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosive properties	Not applicable
Thermal decomposition	No data available
Auto-ignition temperature	Not applicable
Oxidising properties	Non-oxidising
Solubility in water	Highly soluble; 100g/100g water
Solubility in other solvents	Slightly soluble in alcohols.
pH	14.0
Melting point/range	318°C
Boiling point/range	1388°C
Relative density	2.13 g/cm ³ @ 20°C
Vapour pressure	No data available
Vapour density	<2.4 kPa @ 20°C

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9.1 Information on basic physical and chemical properties (continued)

Partition coefficient: n-octanol/water No data available
Viscosity Not applicable
Evaporation rate No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity Exothermic and possible violent reaction with concentrated acids and organic halogen compounds. Possible exothermic reaction with dilute acid solutions. Flammable hydrogen gas is produced on reaction with light metals, Aluminium, Zinc, Tin and tin oxides. May be corrosive to metals.

10.2 Chemical stability Air sensitive. Will form carbonates on reaction with atmospheric carbon dioxide. Stable when stored in sealed container at normal temperatures and in a suitable location.

10.3 Possibility of hazardous reactions None if stored and used as directed, but refer to 10.1 above.

10.4 Conditions to avoid Damp; extremes of temperatures.

10.5 Incompatible materials Acids, nitriles, alkaline earth metals in powder form, ammonium compounds, cyanides, magnesium, organic nitro compounds, organic combustible substances, phenols and oxidisable substances.

10.6 Hazardous decomposition products Hydrogen (in contact with metals).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Sodium hydroxide	2000 mg/kg (Rat)	No data available	1,350 mg/kg (Rabbit)

Skin corrosion/irritation: Corrosive to skin tissue.

Serious eye damage/eye irritation: Causes damage to eye tissue.

Respiratory or skin sensitisation: Fumes can cause respiratory irritation, wheezing and rhinitis.

Repeated dose toxicity: No data available

Carcinogenicity: Not classed as carcinogenic.

Mutagenicity: Not classed as mutagenic.

Toxicity for reproduction: Not classed as toxic for reproduction.

Further information: No data available.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Chemical name	Species	Test	Value
Sodium hydroxide	Daphnia	EC50 24h	76 mg/l
	Bluegill	LC50 48h	99 mg/l
	Rainbow trout	LC50 48h	45.4 mg/l

12.2 Persistence and degradability No data available.**12.3 Bioaccumulative potential** Not expected to bioaccumulate.**12.4 Mobility in soil** The product is soluble in water and will migrate through soil.**12.5 Results of PBT and vPvB assessment** No data available.

12.6 Other adverse effects Other than for the product's normal use as a drain cleaner, do not discharge excess product into drains or rivers. water courses or soil.
A rise in the pH of water to 10.5 or above may be fatal to fish and other aquatic organisms.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Disposal operations: Dispose of in accordance with local and national regulations. Other than for the product's normal use as a drain cleaner, do not discharge excess product into drains or rivers. Do not dispose of together with household waste. Contact licensed waste disposal company.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn or use a cutting torch on the empty drum.

14. TRANSPORT INFORMATION**14.1 UN number:** 1823**14.2 UN proper shipping name:** SODIUM HYDROXIDE, SOLID**14.3 Transport hazard class(es):** Class: 8

Transport label(s):

14.4 Packing Group: II**14.5 Environment hazards:** Marine Pollutant: No**14.6 Special precautions for user:** EMS: F-A, S-B**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

GB MCL (Mandatory Classification and Labelling).

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

S.I. 2020 No. 1577: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

Volatile Organic Compounds (VOC) content: 0 g/l. (Directive 1999/13/EC)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with the requirements of the UK REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation - The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. (S.I. 2020 No. 1577).

Reason for revision: amended environmental discharge information in Sections 8, 12 and 13.

Classification and procedure used to derive the classification for mixtures according to GB CLP:

Physical hazards:	Expert judgement.
Health hazards:	Calculation method
Environmental hazards:	Calculation method

Full text of H-statements referred to under sections 2 and 3

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

Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.
STOT: Single Target Organ Toxicity (Section 11).
TWA: Time-weighted average. (Section 8).
STEL: Short-term exposure limit. (Section 8).
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).
vPvB: very Persistent and very Bioaccumulative. (Section 12).
EC50: Effective Concentration, 50 percent. (Section 12).
LC50: Lethal Concentration, 50 percent. (Section 11/12).
LD50: Lethal Dose, 50 percent. (Section 11).
vPvB: very Persistent and very Bioaccumulative. (Section 12).

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Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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