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

1.1 Product Identifier

Material name : Power Descaler
Product code :

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

Product use : Descaling agent – For Industrial and Professional use only.

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	Not classified
Human health	Sk.Corr.1; H314; Eye Dam.1; H318; Ac. Tox.1; H330; EUH071
Environment	Not classified

2.2 Label elements
Labelling according to GB CLP:

Signal word: Danger Contains: Nitric acid

Pictograms:

Hazard statements:
H314 Causes severe skin burns and eye damage.
H330 Fatal if inhaled.

Supplemental label information:
EUH071 Corrosive to the respiratory tract.

Precautionary statements:

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 immediately all contaminated clothing. Rinse skin with water.
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 POISON CENTRE/Doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with national regulations.

2.3 Other hazards: The product does not contain any vPvB or PBT substances.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Index No./ Reg. No	Classification (CLP)	Content
NITRIC ACID…%	7697-37-2 231-714-2 007-004-00-1 01-2119487297-23-xxxx	Ox. Liq. 2; H272: C ≥ 99% Skin Corr. 1A; H314 Acute Tox.1; H330 EUH071	15 - <30%
PHOSPHORIC ACID...%	7664-38-2 231-633-2 015-011-00-6 01-2119485924-24-xxxx	Skin Corr. 1B; H314: C ≥ 25% Eye Irrit. 2; H319: 10% ≤ C <25% Skin Irrit. 2; H315: 10% ≤ C <25%	5 - <15%

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.

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 plenty of water. Seek immediate medical advice.

Eye contact: Rinse immediately with water for 10 minutes and seek medical advice.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek immediate medical advice.

Inhalation: Inhalation after prolonged exposure can be lethal. Corrosive to the respiratory tract – do not breathe in any fumes arising from the product. Seek immediate medical assistance if affected.

4.2 Most important symptoms and effects, both acute and delayed: Causes skin burns. Causes eye damage. Fatal if inhaled.

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

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Product is non-flammable; use appropriate extinguishing media for the surrounding area.
Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

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

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

Wipe up spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

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: Do not handle without personal protective equipment. Do not breathe in any vapours arising from the product and avoid contact with skin and eyes. Handle with extreme care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area between 5°C and 25°C. Keep container tightly closed.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Chemical name	8hr TWA	15min STEL	Reference
Nitric acid	-	2.6 mg/m^3/1 ppm	EH40/2005
Phosphoric acid	1mg/m^3	2 mg/m^3	EH40/2005

DNEL:

Area of application	Exposure route	Nitric acid	Phosphoric acid
Consumer	Inhalation-Short term local effects	1.3 mg/m^3	No data
Consumer	Inhalation-Long term local effects	1.3 mg/m^3	0.36 mg/m^3
Workers/ Employees	Inhalation-Short term local effects	2.6 mg/m^3	2 mg/m^3
Workers/ Employees	Inhalation-Long term local effects	2.6 mg/m^3	1 mg/m^3

PNEC: No information available

8.2 Exposure controls

Engineering measures: Provide adequate ventilation to control exposure.

Personal protective equipment

Respiratory protection: Use respiratory protection - respirators fitted with type E-P2 filters if Workplace Exposure Limit(s) listed above are likely to be exceeded.

Hand protection: Protective PVC or rubber gloves; check with glove manufacturer for specific advice.

Eye protection: Tightly-fitting safety goggles or glasses conforming to European standard EN 166.

Skin and body protection: Protective overalls. Protective apron.

Hygiene measures: 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: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Colourless liquid
Odour	Faint
Odour Threshold	Not determined
Flammability	Not classed as flammable
Flash point	Not applicable
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosive properties	Not explosive

9.1 Information on basic physical and chemical properties (continued)

Thermal decomposition	No data available
Auto-ignition temperature	No data available
Oxidising properties	No data available
Solubility in water	Soluble
Solubility in other solvents	Not determined
pH	0
Melting point/range	No data available
Boiling point/range	96°C
Relative density	1.145
Vapour pressure	2590 Pa @ 20°C
Vapour density	Not determined
Partition coefficient: n-octanol/water	Not determined
Kinematic viscosity	1.12 mm^2/s
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity May react violently with alkalis.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions None if stored and used as directed.

10.4 Conditions to avoid Extreme heat.

10.5 Incompatible materials Strong oxidising agents. Strong bases.

10.6 Hazardous decomposition products Toxic fumes may be released.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Classified as Acute Tox.1; Fatal if inhaled; H330.

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Nitric acid	No data available	2650 mg/m^3 (Rat)	No data available
Phosphoric acid	>300 - ≤2000mg/Kg (Rat)	No data available	No data available

Skin corrosion/irritation: Classified as Skin Corrosion Category 1; H314

Serious eye damage/eye irritation: May cause serious eye damage.

Respiratory or skin sensitisation: Not classified as a sensitiser but may be corrosive to the respiratory tract.

Repeated dose toxicity: Based on available data the classification criteria are not met.

Carcinogenicity: Based on available data the classification criteria are not met.

Mutagenicity: Based on available data the classification criteria are not met.

Toxicity for reproduction: Based on available data the classification criteria are not met.

Specific target organ toxicity (STOT): Based on available data the classification criteria are not met.

Further information: No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity Based on available data the classification criteria are not met.
Lowering of the pH to 5 or below in aquatic environments has been shown to be toxic to aquatic organisms.

12.2 Persistence and degradability Biodegradable.

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil Miscible with water.

12.5 Results of PBT and vPvB assessment No PBT or vPvB substances identified.

12.6 Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.
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 container.

14. TRANSPORT INFORMATION

14.1 UN number: 2927

14.2 UN proper shipping name: TOXIC LIQUID, CORROSIVE ORGANIC, N.O.S. (Nitric acid)

14.3 Transport hazard class(es): Class: 6.1

Transport label(s): 6.1, 8

14.4 Packing Group: I

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.

15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports are not required for mixtures.

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).

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

Physical hazards:	Not classified
Health hazards:	Calculation method
Environmental hazards:	Not classified

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

H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
EUH071	Corrosive to the respiratory tract.

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
ATE: Acute Toxicity Estimate (Section 11).
CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.
DNEL: Derived No Effect Level (Section 8).
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).
PNEC: Predicted No Effect Concentration (Section 8).
STEL: Short-term exposure limit. (Section 8).
STOT: Single Target Organ Toxicity (Section 11).
TWA: Time-weighted average. (Section 8).
vPvB: very Persistent and very Bioaccumulative. (Section 12).

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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