



PMD (UK) LIMITED

SAFETY DATA SHEET PRECIOUS METAL CLEANER

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

1.1. Product identifier

Product name PRECIOUS METAL CLEANER
Product number 206029,206030,998 148,TP133

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

Identified uses Metal surface treatment

1.3. Details of the supplier of the safety data sheet

Supplier PMD (UK) Limited
Broad Lane
Coventry
CV5 7AY
Tel: 024 764 666 91
Fax: 024 764 730 34

stevel@pmdgroup.co.uk

1.4. Emergency telephone number

Emergency telephone 024 764 666 91 (Mon-Fri 8.30-17.00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) C;R35.

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

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Precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p>
Contains	SODIUM HYDROXIDE, DISODIUM METASILICATE
Supplementary precautionary statements	<p>P261 Avoid breathing vapour/spray.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM HYDROXIDE 30-60%		
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX
Classification Skin Corr. 1A - H314 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) C;R35	
DISODIUM METASILICATE 30-60%		
CAS number: 6834-92-0	EC number: 229-912-9	REACH registration number: 01-2119449811-37-XXXX
Classification STOT SE 3 - H335 Skin Corr. 1B - H314 STOT SE 3 - H335 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) C;R34 Xi;R37	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
Inhalation	Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Get medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

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Skin contact Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation Irritating to respiratory system.

Skin contact Causes burns.

Eye contact May cause chemical eye burns.

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

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Inform authorities if large amounts are involved.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 5°C and 30°C.

Storage class Chemical storage.

7.3. Specific end use(s)

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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL

Workers - Inhalation; Short term local effects: 1 mg/m³

Workers - Inhalation; Long term local effects: 1 mg/m³

DISODIUM METASILICATE (CAS: 6834-92-0)

DNEL

Workers - Inhalation; Long term systemic effects: 6.22 mg/m³

Workers - Dermal; Long term systemic effects: 1.49 mg/kg/day

PNEC

- Fresh water; 7.5 mg/l

- Marine water; 1 mg/l

- Intermittent release; 7.5 mg/l

- STP; 1000 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

Hand protection

Use protective gloves.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

Wear a respirator fitted with the following cartridge: Dust and mist filter.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Dusty powder.

Colour

White.

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pH	pH (diluted solution): >12 @ 10 %
Solubility(ies)	Soluble in water.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid	Avoid contact with the following materials: Acids. Oxidising agents.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Toxic gases/vapours/fumes of: Phosphates of: Sodium.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation	May cause respiratory system irritation.
Ingestion	Causes severe burns.
Skin contact	Causes severe burns.
Eye contact	Causes severe burns. Risk of serious damage to eyes.
Route of entry	Inhalation Ingestion. Skin and/or eye contact

Toxicological information on ingredients.

SODIUM HYDROXIDE

Inhalation	May cause respiratory system irritation.
Ingestion	May cause chemical burns in mouth and throat.
Skin contact	Causes burns.
Eye contact	Causes burns. Risk of serious damage to eyes.
Route of entry	Inhalation Ingestion. Skin and/or eye contact

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity	Concentrations which give high pH may be fatal to fish and aquatic organisms.
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Ecological information on ingredients.

SODIUM HYDROXIDE

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Toxicity	Concentrations which give high pH may be fatal to fish and aquatic organisms.
Acute toxicity - fish	LC ₅₀ , 96 hours: 125 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 156 mg/l, Daphnia magna

DISODIUM METASILICATE

Toxicity	Not considered toxic to fish. Concentrations which give high pH may be fatal to fish and aquatic organisms.
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12.2. Persistence and degradability

Ecological information on ingredients.

SODIUM HYDROXIDE

Persistence and degradability	Degrades readily by reaction with natural carbon dioxide.
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12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
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SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3262
UN No. (IMDG)	3262
UN No. (ICAO)	3262
UN No. (ADN)	3262

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE, DISODIUM METASILICATE)
Proper shipping name (IMDG)	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE, DISODIUM METASILICATE)
Proper shipping name (ICAO)	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE, DISODIUM METASILICATE)
Proper shipping name (ADN)	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE, DISODIUM METASILICATE)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C6

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ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	1
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	88
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

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Key literature references and sources for data	Dangerous Properties of Industrial Chemicals, N.Sax, Croner's: Dangerous Substances. Croner's: Emergency Spillage Guide. Croner's: Substances Hazardous to Health. Material Safety Data Sheet, Misc. manufacturers.
Revision date	10/06/2015
Revision	5
Supersedes date	20/06/2006
Risk phrases in full	R34 Causes burns. R35 Causes severe burns.
Hazard statements in full	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation.

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.