
PRO-CLEAN™ SAFETY DATA SHEET

Issued: 02/07/2010 Revision No: 02

7 Pages

According to the Commission Regulation (EU) No 453/2010 Annex II of REACH Regulation

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product Identifier

Pro-Clean

1.2 Relevant identified uses of the mixture and of the company

Alkaline based evaporator and condenser coil cleaner

1.3 Details of the supplier of the safety data sheet

DiversiTech UK Limited
Glaisdale Drive East, Nottingham, NG8 4LY United Kingdom
Phone: +44 115 900 5858

1.4 Emergency telephone number

Emergency tel:

+1 813 248 0585 24 Hours, 7 Emergency Days, Chem-Tel, Inc.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the mixture

Classification under CHIP:	The preparation is not considered dangerous and does not warrant any classification under CHIP
Directive 1999/45/EC:	This mixture is not classified as dangerous in accordance with Directive 1999/45/EC.

Physicochemical hazards: Incompatible with strong oxidising agents, strong acids and strong alkalis

Human health: May irritate eyes. Swallowing can cause gastro-intestinal irritation, nausea, vomiting and diarrhoea. Effects from inhalation of mists and vapours vary from mild to moderate irritation of the upper respiratory tract, depending on severity of exposure. Aspiration of material into the lungs can cause chemical pneumonitis.

Environment: Concentrated product is moderately harmful to aquatic organisms.

Please see Section 16 for full classification.

2.2 Label elements

Risk phrases

Safety Phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of soap and water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S46: If swallowed, seek medical advice immediately and show this container or label

S60: This material and its container must be disposed of as hazardous waste.

2.3 Other hazards

Workplace exposure limit:	This product does not have a workplace exposure limit.
PBT:	This substance is not identified as a PBT substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name:	CAS Number	EINECS Number	% Composition	Classification according to CHIP
Ethylamine diamine tetraacetic acid, tetrasodium salt			1-2	[Xi] R:36/37/38
Sodium silicate	1344-09-8	239-981-7	<1	[Xn] R22; [C] R35; [Xi] R41

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

Skin contact - Wash skin with soap and water for at least 15 minutes. If irritation develops or persists, get medical attention.

Eye contact - Immediately flush eyes with plenty of water for 15 minutes, lifting lower and upper eyelids occasionally. If irritation persists, get medical attention.

Ingestion - Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Call the nearest poison centre for medical advice.

Inhalation - Remove casualty from exposure ensuring one's own safety whilst doing so. If not breathing give artificial respiration. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe burns. Swallowing can cause gastro-intestinal irritation, nausea, vomiting and diarrhoea. Effects from inhalation of mists and vapours vary from mild to moderate irritation of the upper respiratory tract, depending on severity of exposure.

4.3 Indication of any immediate attention and special treatment needed

Medical attention is required immediately for all exposure.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Not applicable

5.2 Special hazards arising from the substance or mixture

No.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Cool exposed containers with a water spray to prevent rupturing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove contaminated clothing and launder before re use. Keep unnecessary and unprotected people away from area of spill. Ventilate area of leak or spill.

6.2 Environmental precautions

Do not discharge into drains or rivers.

6.3 Method for cleaning up

Absorb neutralized residue on clay, vermiculite or other inert substance and package in a recovery drum or other suitable container for disposal. Wash away residues with water.

6.4 Reference to other sections

Please refer to Section 8 for details on protective wear.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protect from physical damage. Wash thoroughly after handling.

7.2 Condition for safe storage, including any incompatibilities

Store in cool, well ventilated area. Keep container tightly closed.

7.3 Specific end use(s)

No further details

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not applicable

8.2 Exposure controls

Ensure there is sufficient ventilation of the area. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Eye/face protection: Use chemical safety goggles and/or a full face shield where splashing is possible. A source of running water or other eyewash provisions should be nearby.

Skin protection:**Hand protection:** Rubber gloves. Neoprene gloves. Nitrile gloves.**Other:** Use rubber, neoprene or nitrile gloves to minimize skin contact.**Respiratory protection:** Not required during normal use.**Thermal hazards:** Not relevant

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Green liquid
Odour:	Slight citrus odour
Odour threshold:	n.a.
pH:	11.0-11.5 @100%.
Melting point/freezing point:	<0°C
Initial boiling point and boiling range:	104 °C
Flash point:	n.a.
Evaporation rate:	(Water = 1) > 1
Flammability limits %	n.a.
Vapour pressure:	Same as water
Vapour density	> 1
Relative density:	1.02
Solubility:	Miscible in water
Partition Coefficient: n-octanol/water:	n.a.
Auto-ignition temperature:	n.a.
Decomposition temperature:	n.a.
Viscosity:	n.a.
Explosive properties:	n.a.
Oxidising properties:	n.a.

9.2 Other information

No further details

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No further details.

10.4 Conditions to avoid

Incompatibles

10.5 Incompatible materials

Strong oxidising agents. Strong acids. Strong Alkalis

10.6 Hazardous decomposition products

Carbon Dioxide. Carbon Monoxide. Hydrogen sulfide. Sulfur dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity: Swallowing can cause gastro-intestinal irritation, nausea, vomiting and diarrhoea. Aspiration of material into the lungs can cause chemical pneumonitis. Effects from inhalation of mists and vapours vary from mild to moderate irritation of the upper respiratory tract, depending on severity of exposure. Abusive or excessive inhalation of vapours may cause irritation to the upper respiratory tract, dizziness, nausea and other nervous system effects.

Irritation: Prolonged skin exposure may produce mild temporary irritation. If in contact with eye, there may be temporary irritation and pain.

Corrosivity: not expected to be corrosives

Sensitisation: Not expected to be a sensitiser

Repeated dose toxicity: Not expected to be of major concern

Carcinogenicity: Not expected to be carcinogenic.

Mutagenicity: Not expected to be mutagenic

Toxicity for reproduction: Not expected to be toxic to reproduction

Route of exposure: Skin contact

Symptoms related to the physical, chemical and toxicological characteristics: Eye and skin irritation. Swallowing can cause gastro-intestinal irritation, nausea, vomiting and diarrhoea. Abusive or excessive inhalation of vapours may cause irritation to the upper respiratory tract, dizziness, nausea and other nervous system effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil. Final destination of reacted products is water.

12.5 Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.

12.6 Other adverse effects

Concentrated product is moderately harmful to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations - Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility.

Disposal of packaging - Empty containers of this material pose no disposal hazard and may be recycled.

Please follow all local, regional, national and international laws.

SECTION 14: TRANSPORT INFORMATION

Not regulated-not classified as dangerous goods for carriage under ARD/RID/IMDG/ICAO/IATA

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not Environmentally Hazardous Substance

14.6 Special precautions for user

Not applicable

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

Not applicable to packaged goods

SECTION 15: REGULATORY INFORMATION

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

According to CHIP

Hazard symbols: None

Risk phrases

The preparation is not considered dangerous and does not warrant any classification.

Safety Phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of soap and water.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S46: If swallowed, seek medical advice immediately and show this container or label

S60: This material and its container must be disposed of as hazardous waste.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

15.2 Chemical safety assessment

A chemical safety assessment has not been conducted.

SECTION 16: OTHER INFORMATION

Other information

This safety data sheet is prepared in accordance with Regulation (EC) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Risk phrases used in Section 3

R22: Harmful if swallowed.

R35: Causes severe burns.

R41: Risk of serious damage to eyes.

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.