

# PRO-COIL+™ 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-Coil+

### 1.2 Relevant identified uses of the mixture and of the company

Alkaline based evaporator 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

<b>Classification under CHIP:</b>	[X]; irritant
<b>Directive 1999/45/EC:</b>	This mixture meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

Physicochemical hazards: Incompatible with strong oxidising agents. May evolve carbon monoxide, carbon dioxide and other unidentified fragments if this product is involved in a fire.

Human health: 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.

Environment: This product does not contain substances which are harmful to aquatic organisms or which may cause long term effects to the aquatic environment.

Please see Section 16 for full classification.

### 2.2 Label elements



Irritant

#### Risk phrases

R36/38: Irritating to eyes and skin

#### 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).

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

### 2.3 Other hazards

<b>Workplace exposure limit:</b>	This product does not have a workplace exposure limit.
<b>PBT:</b>	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
Potassium hydroxide	1310-58-3	215-181-3	1-2	[Xn] R22; [C] R35.
Sodium silicate	1344-09-8	239-981-7	1-2	[Xn] R22; [C] R35; [Xi] R41
2-Butoxyethanol	111-76-2	203-905-0	0-5	[Xn] R20/21/22; [Xi] R36/38

## 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 burns. 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.

### 4.3 Indication of any immediate attention and special treatment needed

If in contact with eyes immediately flush with water. Medical attention is required for all exposure.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Carbon dioxide. Dry chemical powder. Foam. Media suitable for the primary source of the fire.

### 5.2 Special hazards arising from the substance or mixture

Non-flammable.

### 5.3 Advice for fire-fighters

In the event of a fire, wear full protective clothing and approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Cool fire-exposed containers with a water spray.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Remove contaminated clothing immediately. Keep unnecessary and unprotected people away from area of spill. Ventilate area of leak or spill.

### 6.2 Environmental precautions

Contain and absorb liquid with clay, vermiculite or other inert substance. Sweep up absorbed material and package in a container suitable for disposal.

### 6.3 Method for cleaning up

Contain and absorb liquid with clay, vermiculite or other inert substance. Sweep up absorbed material and package in a container suitable 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

POTASSIUM HYDROXIDE

UK - 15 min. STEL: 2 mg/m<sup>3</sup>

2-BUTOXYETHANOL

UK - 8 hour TWA: 25 ppm

UK - 15 min. STEL: 50 ppm

### 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:* Protective gloves.

*Other:* Wear impervious gloves to minimize prolonged 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

<b>Appearance:</b>	Dark blue liquid
<b>Odour:</b>	Fruit like, ethereal odour
<b>Odour threshold:</b>	n.a.
<b>pH:</b>	7.5 - 9.5 (pH of 5% solution)
<b>Melting point/freezing point:</b>	-1 °C
<b>Initial boiling point and boiling range:</b>	104 °C
<b>Flash point:</b>	n.a.
<b>Evaporation rate:</b>	(Water = 1) > 1
<b>Flammability limits %</b>	n.a.
<b>Vapour pressure:</b>	Same as water
<b>Vapour density</b>	n.a.
<b>Relative density:</b>	Same as water
<b>Solubility:</b>	Miscible in water
<b>Partition Coefficient: n-octanol/water:</b>	n.a.
<b>Auto-ignition temperature:</b>	n.a.
<b>Decomposition temperature:</b>	n.a.
<b>Viscosity:</b>	n.a.
<b>Explosive properties:</b>	n.a.
<b>Oxidising properties:</b>	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

Heat. Incompatibles.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

May evolve carbon monoxide, carbon dioxide and other unidentified fragments if this product is involved in a fire.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute Toxicity:** Causes burns. Swallowing can cause gastro-intestinal irritation, nausea, vomiting and diarrhoea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity. 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 will produce mild irritation/burns. In contact with eye, there may be irritation/burns and pain.

**Corrosivity:** Causes burns.

**Sensitisation:** Not expected to be a sensitiser

**Repeated dose toxicity:** Not expected to be of major concerns

**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 and inhalation

**Symptoms related to the physical, chemical and toxicological characteristics:** Causes severe burns. 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

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

The product does not contain PBT substances.

## 12.6 Other adverse effects

No data available.

# SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

**Disposal operations** - Processing, use or contamination of this product may change waste management options. Dispose of spill-clean up and other wastes in accordance with Federal, State and local regulations. State and local disposal regulations may differ from federal disposal regulations.

**Disposal of packaging** - Dispose of container and unused contents in accordance with federal, state and local requirements. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility.

**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:** Irritant



### Risk phrases

R36/38: Irritating to eyes and skin.

### Safety Phrases

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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

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R35: Causes severe burns.

R36/38: Irritating to eyes and skin.

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.**