
PRO-UNIVERSAL AEROSOL™ 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-Universal

1.2 Relevant identified uses of the mixture and of the company

Universal aerosol 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:	[X], Irritating to skin, respiratory system and eyes.
Directive 1999/45/EC:	This mixture meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

Physicochemical hazards: Aerosol containers can explode when heated, due to excessive pressure build-up.

Human health: Inhalation of mists and vapours may cause chemical burns of the upper respiratory tract, depending on severity of exposure, dizziness, nausea and other central nervous system effects. Swallowing can cause gastro-intestinal irritation, nausea, vomiting, diarrhoea. Aspiration of material into the lungs can cause irritation, chemical pneumonitis or alkali burns.

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



R12: Extremely flammable.

R36/37/38: Irritating to eyes, respiratory system and skin.

R67: Vapours may cause drowsiness and dizziness.

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
Potassium hydroxide	1310-58-3	215-181-3	<1	[Xn], R22,[C], R35.
Sodium silicate	1344-09-8	239-981-7	<1	[Xn] R22; [C] R35; [Xi] R41
Liquefied petroleum gas	68476-86-8	270-705-8	< 10	[F+]; R12;

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures

Skin contact - Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash with soap and water. Rinse with copious amounts of fresh, running water. If irritation persists, get medical attention. Transfer to hospital if there are burns or symptoms of poisoning. Contact the nearest poison control centre for advice.

Eye contact – Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. Immediately flush eyes with large amounts of cool running water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention immediately.

Ingestion - Do not induce vomiting. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Call the nearest poison centre for medical advice. Do not leave victim unattended. Vomit may occur spontaneously. If victim is alert and conscious give 2-3 glasses of water to drink. To prevent aspiration lay victim on side with head lower than waist. Do not induce vomiting unless directed to do so by a physician.

Inhalation - If breathing becomes laboured, give oxygen. Remove to fresh air. If not breathing give artificial respiration. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Can irritate the eyes and gastrointestinal tract. Ingestion may cause nausea and vomiting. Inhalation of high vapour concentrations can cause irritation of the mucous membrane and the respiratory system. Symptoms may include headaches, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

4.3 Indication of any immediate attention and special treatment needed

If the product gets in contact with the eye or is accidentally ingested please seek medical attention immediately.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Exposure to temperatures above 49 °C may cause containers to rupture.

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 immediately. Keep unnecessary and unprotected people away from area of spill. Keep spark, flames and heat sources away from spill. Do not smoke while attending to the spill or leak. Ventilate area of leak or spill. Allow foam to dissipate and propellant to evaporate. Contain and absorb liquid with clay, vermiculite or other inert substance.

6.2 Environmental precautions

Allow propellant to evaporate. Allow foam to dissipate. 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.

6.3 Method for cleaning up

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Allow propellant to evaporate. 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

Wash hands thoroughly after handling or using this product.

7.2 Condition for safe storage, including any incompatibilities

Store in cool, well ventilated area. Keep container tightly closed. Protect from physical damage. Store in a cool, dry ventilated area below 49 °C.

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/m³

8.2 Exposure controls

Ensure there is sufficient ventilation of the area.

Eye/face protection: Tightly fitting safety goggles. Ensure eye bath is to hand. 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. Rubber gloves. Nitrile gloves. Neoprene gloves.

Other: Protective clothing. Use rubber, neoprene or nitrile gloves to minimize skin contact.

Respiratory protection: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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.

Thermal hazards: Not relevant

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear orange liquid in aerosol container
Odour:	Slight lavender odour
Odour threshold:	n.a.
pH:	11.5 - 12.2
Melting point/freezing point:	n.a.
Initial boiling point and boiling range:	104 °C
Flash point:	n.a.
Evaporation rate:	> 1
Flammability limits %	n.a.
Vapour pressure:	55 mm Hg, for container
Vapour density	> 1
Relative density:	1.018
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

In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

10.4 Conditions to avoid

Heat. Incompatibles.

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity: Irritating to eyes, respiratory system and skin. . Swallowing can cause gastro-intestinal. Effects from inhalation of mist vary from mild irritation to serious damage 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, nausea, vomiting and diarrhoea. Aspiration of material into the lungs can cause chemical pneumonitis.

Irritation: Prolonged contact with skin will produce irritation and possible alkali burns. Eye contact may cause pain and moderate irritation and possible alkali burns.

Corrosivity: According to the Corrositex test the breakthrough time for Pro-Universal is 62 minutes.

Sensitisation: Not expected to be a sensitiser

Repeated dose toxicity: No data

Carcinogenicity: Not carcinogenic

Mutagenicity: Not expected to be mutagenic

Toxicity for reproduction: Not expected to be toxic to reproduction

Route of exposure: Inhalation

Symptoms related to the physical, chemical and toxicological characteristics: Causes burns. Skin and eye contact may cause irritation and possible alkali burns. 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

Concentrated product is moderately harmful to aquatic organisms.

12.2 Persistence and degradability

Biodegradable. The detergents and surfactants used in this product are readily biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations - Transfer to a suitable container and arrange for collection by specialised disposal company. Dispose of according to national regulations. Dispose of whatever cannot be saved by recovery in an appropriate and approved waste facility.

Disposal of packaging - Dispose of according to national regulations. 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

14.1 UN number

UN1950

14.2 UN proper shipping name

Aerosols

14.3 Transport hazard class

Class 2: Class Labels 2.1

14.4 Packing group

None assigned

14.5 Environmental hazards

Not Environmentally Hazardous Substance

14.6 Special precautions for user

Away from sources of heat

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

Not applicable to packaged goods

Mode-specific information:

ROAD/RAIL (ADR/RID/CDG)

Transport category 2

Tunnel restriction code D

SEA (IMDG)

Not Marine Pollutant

EmS F-D S-U

AIR (ICAO/IATA)

ERG Code 10C

Aerosol capacity less than 1 litre can be carried under the Limited Quantities provisions of all carriage modes

SECTION 15: REGULATORY INFORMATION

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

According to CHIP

Hazard symbols: Corrosive;

According to CHIP

Hazard symbols: Extremely Flammable; Irritant



R12: Extremely flammable.

R36/37/38: Irritating to eyes, respiratory system and skin.

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Safety Phrases

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

Precautionary phrases

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

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 (EU) No 453/2010.

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

Risk phrases used in Section 3

R12: Extremely flammable

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.