



COSHH DATA SHEET

Pro-Universal™

Total Pages: 4

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COSHH Safety Data Sheet #: Pro-Universal™
 Catalogue #: PRO-UNIVERSAL

SECTION 1. PRODUCT NAME

Pro-Universal™ Universal Coil Cleaner

SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	EINECS No.	% or Range	Symbol	Risk Phrases
Water	7732-18-5	231-791-2	60-70		
Potassium hydroxide	1310-58-3	215-181-3	15-25	[C] [Xn]	R20 R21 R22 R35
Sodium silicate solution	1344-09-8	215-687-4	15-25	[Xi]	R22 R35 R41

Other components: Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.
Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Danger! Corrosive! Poison! Causes severe burns to skin, eyes, respiratory tract, and gastrointestinal tract. Material is extremely destructive to all body tissues. May be fatal if swallowed. Harmful if inhaled.

Inhalation: Corrosive. Effects from inhalation of mists vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose, redness, itching or burning. Severe pneumonitis may occur.

Ingestion: Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhoea, fall in blood pressure. Symptoms may be delayed after exposure.

Skin Contact: Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Eye Contact: Corrosive! Causes extreme irritation of eyes. Greater exposures can cause burns that may result in permanent impairment of vision, even blindness.

Chronic Exposure: Prolonged contact with dilute solutions or mists has a destructive effect upon tissue.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

SECTION 4. FIRST AID

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately after administering first aid.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately after administering first aid.

Ingestion: Call the nearest poison control centre or the National Poison Control Hotline at 1-800-222-1222 (U.S.A.), NPIS +0844 892 0111 (UK), NPIC (01) 809 2566 (Ireland), or by dialling 112 (EU) for advice immediately. Do not induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, give 2-3 glasses of water to drink. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously.

Note to Physician: Perform endoscopy in all cases of suspected potassium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

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SECTION 5. FIRE FIGHTING MEASURES

Not considered to be a fire hazard. Hot or molten material can react violently with water. Can react with certain metals, such as aluminium, to generate flammable hydrogen gas.

Explosion: May cause fire and explosions if hydrogen gas is evolved during contact with incompatible materials.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Adding water to this material may generate a large amount of heat.

Special Information: If this product is involved in a fire, mists, smoke, or steam may be corrosive, or cause severe irritation to eyes and respiratory system and skin. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode to minimize contact with corrosives.

SECTION 6. SPILL/ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Remove contaminated clothing immediately. Remove unnecessary personnel from the area of the spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not flush large volumes of caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulphuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal. Do not use aluminium tools to collect absorbed material or aluminium containers to store collected waste. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Centre is (800) 424-8802.

Evacuation Procedure: Evacuate local area (15 foot radius or as directed by your facility's emergency response plan) when any quantity is spilled. If conditions warrant, increase the size of the evacuation.

See Section 13. For waste disposal recommendations.

SECTION 7. HANDLING AND STORAGE

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Store above 16C (60F) to prevent freezing. Always add the caustic to water while stirring; never the reverse. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Do not store with aluminium or magnesium. Do not mix with acids or organic materials. Keep this and all chemicals out of the reach of children. Wash hands thoroughly after handling.

SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Occupational Exposure Limits EH40 (UK)

Potassium hydroxide WEL 8-hr limit ppm: -

WEL 8-hr limit mg/m³: -

WEL 15 min limit ppm: -

WEL 15 min limit mg/m³: 2

Engineering measures: Ensure adequate ventilation of the working area.

Respiratory protection Wear: Self-contained breathing apparatus.

Hand protection: Chemical resistant gloves (PVC)

Eye protection: Approved safety goggles.

Protective equipment: Wear chemical protective clothing.

SECTION 9. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >220°F

Vapour pressure (mm Hg): Same as water

Vapour Density (Air = 1): Same as water

Solubility in water: Water miscible

Appearance and odour: Light amber liquid with a violet odour

Specific gravity (H₂O = 1): 1.19

Melting Point (Pour Point): <25°F

Evaporation Rate (Water = 1): >1

pH@°C: 14

SECTION 10. STABILITY AND REACTIVITY DATA

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Potassium oxide. Decomposition by reaction with non-ferrous metals releases flammable and explosive hydrogen gas.

Hazardous Polymerization: Will not occur.

Incompatibilities: Potassium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may cause violent reactions. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminium, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Potassium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.

Conditions to Avoid: Heat, incompatibles.

SECTION 11. TOXICOLOGY INFORMATION

Toxicity Data:

Potassium hydroxide: ORL-RAT LD50 275 mg kg⁻¹

Irritation Data:

Potassium hydroxide:

Skin-Human: 50mg/24h/severe irritation

Skin-Rabbit: 50mg/24h/ severe irritation

Eye-Rabbit: 1mg/24h/rinse moderate irritation

Skin- Guinea pig: 50mg/24h/severe irritation

NTP Carcinogen: No

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate: No information on mixture

Environmental Toxicity: No information on mixture

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SECTION 13. DISPOSAL CONSIDERATIONS

Advice on disposal

In accordance with local and national regulations.

Waste disposal number of waste from residues/unused products

16 05 02 Other waste containing inorganic chemicals, e.g. lab chemicals not otherwise specified, fire extinguishing powders.

Waste disposal number of used product

16 05 02 Other waste containing inorganic chemicals, e.g. lab chemicals not otherwise specified, fire extinguishing powders.

Waste disposal number of contaminated packaging

16 05 02 Other waste containing inorganic chemicals, e.g. lab chemicals not otherwise specified, fire extinguishing powders.

Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with national and local regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility.

Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with national and local requirements.

SECTION 14. TRANSPORTATION INFORMATION

US DOT: UN3266, Corrosive liquid, Basic, Inorganic, N.O.S. (contains potassium hydroxide), 8, PGII

International (Water, I.M.O.): UN3266, Corrosive liquid, Basic, Inorganic, N.O.S. (contains potassium hydroxide), 8, PGII

RID/ADR: Shipping Name: Corrosive liquid, Basic, Inorganic, N.O.S. (contains potassium hydroxide)

Dangerous Goods Code: 8(42b)

UN Number: 3266

SECTION 15. REGULATORY INFORMATION

EC Classification: 215-185-5.



Risk phrases:

R20 Harmful by inhalation.

R21 Harmful in contact with skin.

R22 Harmful if swallowed.

R35: Causes severe burns.

R41: Risk of serious damage to eyes.

Safety phrases:

S2: Keep out of reach of children

S24/25: Avoid contact with skin and eyes

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

S37/39: Wear suitable, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US EPA

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Centre of release quantities of Hazardous Substances is not required for this material.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355 (used for SARA 302, 304, 311, and 312) is not required for quantities below 250 pounds.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This material is not subject to reporting requirements.

Toxic Substances Control Act (TSCA) Status: The ingredients of this product are on the TSCA inventory.

State Right to Know

California Proposition 65: No components of this product are on the Prop 65 List of Hazardous substances

Massachusetts: Hazardous substances and extraordinarily hazardous substances must be identified.

Pennsylvania: Hazardous substances must be identified.

California SCAQMD Rule 443.1 (VOC's)

Chemical Inventory Status

Ingredient	TSCA	EC	Japan	Australia	Korea	DSL	NDSL	Phil.
Potassium hydroxide (1310-58-3)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

Federal, State & International Regulations

Ingredient	SARA 302 RQ TPQ	SARA 313	RCRA	TSCA
Potassium hydroxide (1310-58-3)	No No	No 1000	No	No

Chemical Weapons Convention: No

TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes (Mixture / Liquid)

Australian Hazchem Code: 2R

Poison Schedule: S6

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION



NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

Risk Phrases:

R20 Harmful by inhalation.
R21 Harmful in contact with skin.
R22 Harmful if swallowed.
R35 Causes severe burns.
R41 Risk of serious damage to eyes.

Label Hazard Warning:

CORROSIVE Contains Potassium Hydroxide. May be fatal if swallowed. Harmful if inhaled. Causes severe burns.

Label Precautions:

Causes severe burns
Keep locked up and out of the reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
Wear protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show the label if possible).

First Aid: If swallowed, DO NOT INDUCE VOMITING. Immediately drink 3-4 glasses of water followed by a large glass of citrus juice. Call a physician immediately.

Eyes: flush eyes with running water for at least 15 minutes while lifting lids to rinse the area behind the eyelids.

Skin: flush affected area with running water for at least 15 minutes or until skin no longer feels slick while removing contaminated clothing and shoes. Wash clothing before reuse.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing does not return to normal within a few minutes, get medical attention.

Product Use: Air conditioning and refrigeration coil cleaner.

SECTION 17. ADDITIONAL INFORMATION:

This information is provided in accordance with the requirements of the UK Health and Safety at Work Act 1974, and specifically in order to assist users of the product to make their 'assessment of health risks' as required by the UK Control of Substances Hazardous to Health Regulation 1988 (COSHH assessments). Provision of this information does not preclude users from seeking advice from other sources as indicated in the COSHH guides. This information is intended to cover potential hazards at the place of work and does not detail medical uses, indications, contra-indications and precautions for the treatment of patients.

SECTION 18. MANUFACTURER:

Specialty Chemical Manufacturing
A Diversitech Company
1633-B High Bridge Road, Quincy, FL 32351, USA
Phone: +1.678.542.3600
EMERGENCY Phone No.: 1-800-255-3924 Chem-Tel (Chemical Emergencies Only)
International Chemical Emergency Contact: +1.813.248.0585 (Chem-Tel, Inc.)

SECTION 19. REFERENCE NUMBER, DATE OF ISSUE:

COSHH Safety Data Sheet: Pro-Universal Date: 16/12/2009

This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.