

ULTRASIL 130

1. Identification of the material and supplier

Names

Product name : ULTRASIL 130
 ADG : POTASSIUM HYDROXIDE SOLUTION
 Supplier : ECOLAB PTY LTD (A.B.N. 59 000 449 990)
 6 Hudson Ave, Castle Hill NSW 2154
 Customer Service phone: 1 800 022 002
 Free Fax Number: 1 800 655 679

Emergency telephone number : 1 800 124 170

Uses

Material uses : Cleaning product
 Date of issue : 10-June-2009

2. Hazards identification

Statement of hazardous/dangerous nature : **Classified as hazardous** according to the criteria of NOHSC and **classified as dangerous goods** according to the ADG Code.

Risk phrases : R22- Harmful if swallowed.
 R35- Causes severe burns.

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 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).

3. Composition/information on ingredients

Ingredient name	CAS number	Concentration
potassium hydroxide	1310-58-3	30 - 60
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	<10

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

4. First-aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion : Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26). Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

5 . Fire-fighting measures

Hazchem code	: 2R
Extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Fire/explosion hazards	: No specific hazard.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides metal oxide/oxides

6 . Accidental release measures

Personal precautions	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7 . Handling and storage

Handling	: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	: Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from incompatibles, such as acid

8 . Exposure controls/personal protection

Occupational exposure limits

Ingredient name

potassium hydroxide

Exposure limits

ASCC (Australia, 8/2005).

PEAK: 2 mg/m³ 15 minute(s).

Engineering measures	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
-----------------------------	---

ULTRASIL 130

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Eyes : Wear chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hands : Recommended: PVC gloves.

Respiratory : If ventilation is inadequate, use respirator that will protect against organic vapour and dust/mist. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

Skin : Wear synthetic apron, other protective equipment as necessary to prevent skin contact.

9 . Physical and chemical properties

Physical state : Liquid. [Liquid.]

Colour : Colourless.

Odour : Odourless.

Boiling point : >100°C (>212°F)

Melting point : Not available.

Vapour pressure : Not available.

Specific gravity : 1.4 to 1.44

Relative density : 1.4 to 1.44 g/cm³ [20°C (68°F)]

Flash point : Product does not support combustion.

Vapour density : Not available.

pH : 13 to 14 [Conc. (% w/w): 100%]

Solubility : Easily soluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Conditions to avoid : No specific data.

Materials to avoid : acid

Hazardous decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
phosphorus oxides
metal oxide/oxides

Hazardous Reactions : May react vigorously with acids.

11 . Toxicological information

Potential acute health effects

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Skin contact : Severely corrosive to the skin. Causes severe burns.

Eye contact : Severely corrosive to the eyes. Causes severe burns.

Potential chronic health effects

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

12 . Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
potassium hydroxide	Fish	96 hours	Acute LC50 80 mg/L
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	Fish - Bluegill	96 hours	Acute LC50 3092000 to 3540000 ug/L Fresh water
	Fish - Bluegill	96 hours	Acute LC50 2070000 to 2180000 ug/L Fresh water
	Fish - Bluegill	96 hours	Acute LC50 1030000 to 1080000 ug/L Fresh water
	Fish - Bluegill	96 hours	Acute LC50 486000 to 500000 ug/L Fresh water
	Fish - Bluegill	96 hours	Chronic NOEC 1800000 ug/L Fresh water
	Fish - Bluegill	96 hours	Chronic NOEC 870000 ug/L Fresh water
	Fish - Bluegill	96 hours	Chronic NOEC 456000 ug/L Fresh water
	Fish - Bluegill	96 hours	Chronic NOEC 157000 to 169000 ug/L Fresh water
	Fish - Bluegill	96 hours	Chronic NOEC 115000 ug/L Fresh water

Persistence/degradability : Not available.

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

13 . Disposal considerations

Methods of disposal : Do not reuse product containers. The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14 . Transport information

Regulation	UN number	Proper shipping name	Class	Packing group	Additional information
ADG	UN1814	POTASSIUM HYDROXIDE SOLUTION	8	II	Hazchem code 2R Initial emergency response guide 37
IMDG	UN1814	POTASSIUM HYDROXIDE SOLUTION	8	II	Emergency schedules (EmS) F-A, S-B

15 . Regulatory information

Australia inventory (AICS) : All substances are listed on AICS or exempt.

AU Classification : C - Corrosive
Xn - Harmful
R22- Harmful if swallowed.
R35- Causes severe burns.

Standard for the Uniform Scheduling of Drugs and Poisons

S6

Control of Scheduled Carcinogenic Substances

Ingredient name

No listed substance

Schedule

16 . Other information

Prepared by : Regulatory Affairs

Date of previous issue : **No previous validation.**

References : -ADG Code - Australian Transport of Dangerous Goods
-Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment
-Approved Criteria for Classifying Hazardous Substances
-List of Designated Hazardous Substances
-National Code of Practice for the Labelling of Workplace Substances
-National Code of Practice for the Preparation of Material Safety Data Sheets
-National Model Regulations for the Control of Scheduled Carcinogenic Substances
-National Model Regulations for the Control of Workplace Hazardous Substances
-Standard for the Uniform Scheduling of Drugs and Poisons

Disclaimer

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.