

77-83 Lytton Road, Moss Vale, NSW 2577 Australia
Tel. 61 02 4869 3261 Fax. 61 02 4869 3264

Internet: www.enretech.com.au
Email: info@enretech.com.au

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet was created in accordance with the criteria specified by Australia's National Occupational Health and Safety Commission's National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC: 2011 (1994)].

Date of Issue: Issue #6, revised Jan. 2002

Statement of Hazardous Nature: *Not classified as hazardous according to criteria of NOHSC Australia.*

1. IDENTIFICATION

Product Name:	Acid Absorbent	UN Number:	None Allocated
Other Names:	Enretech-1A	Hazchem Code:	None Allocated
Product Code:	015, 016	Poisons Schedule #:	None Allocated
Dangerous Goods Class:	None Allocated	NATO Stock #:	None Allocated

Use: A natural cellulose product impregnated with soda ash for the absorption, and encapsulation of most acids (up to 50% concentration) without splattering. Once contained and partially neutralised, the dry waste can be safely handled and removed for disposal. The resulting dry waste will not harm people, machinery, equipment or any surface it comes in contact with.

Physical Description/Properties:

Appearance:	brown, fibrous, odourless fibrous powder	Solubility in Water (g/L):	Slight
Boiling Point at 760 mm Hg (°C):	Not Relevant	Flash Point (°C):	Not Relevant
Melting Point at 760 mm Hg (°C):	851 (soda ash)	Bulk Density:	0.236 g/mL
Vapour Pressure @ 25 °C (mm Hg):	Not Relevant	Auto-ignition Temperature:	>260 °C
LEL (%):	>50,000 mg/m ³ in air (cellulose)	UEL (%):	Not Available

Other Properties:

Corrosiveness:	No Hazard	Particle Size (µm):	Not Available
Oxidising Properties:	No Hazard	Settling Rate in Air (minutes):	Not Available
Reactivity:	No Hazard under normal use	Percent Volatiles (%):	0
Odour Threshold:	Not Available	pH (100%):	11 in water

Ingredients: The ingredients are NOT considered hazardous in the quantities present and are considered proprietary information.

<u>Chemical Entity</u>	<u>CAS No:</u>	<u>Proportion (%):</u>
Cellulosic waste material	9004-34-6	81-85
Proprietary Ingredients	-	15-19

2. HEALTH HAZARD INFORMATION

Health Effects:

Acute:

Swallowed: Unlikely as an exposure route. May irritate the mouth, throat and digestive tract. May result in nausea or diarrhoea.

Eye: Irritating to eyes.

Skin: Absorption through skin not an exposure route. Repeated or prolonged skin contact may cause redness. In some individuals, overexposure may aggravate an existing medical condition, or skin sensitivity.

Inhaled: Inhalation of high dust levels may cause irritation to the mucous membranes of the nose, throat and respiratory tract. Persons with a history of respiratory illness should not be exposed to conditions where exposure to significant levels of dust is likely.

Chronic: Chronic skin exposures may cause dermatitis. Chronic over-exposure to high dust levels may lead to perforation of the nasal septum (soda ash).

First Aid:

Swallowed: Thoroughly rinse mouth with water. Drink a glass of water. Do NOT induce vomiting. If discomfort arises, seek medical attention.

Eye: Rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

Skin: Remove any contaminated clothing and wash skin thoroughly. If irritation or redness results from prolonged skin contact, seek medical attention.

Inhaled: If encountering respiratory difficulties, remove from dusty area and into fresh air, if possible. Seek medical attention if effects persist.

First Aid Facilities: Sterile eyewash solution.

Advice to Doctor: Treat symptomatically.

3. PRECAUTIONS FOR USE

Exposure Standards:

Australia NOHSC: 1003 (1995):	10 mg/m ³ (cellulose - inspirable dust)
OSHA-PEL:	15 mg/m ³ (cellulose - total dust)
	5 mg/m ³ (cellulose - respirable dust)
ACGIH-TLV:	10 mg/m ³ (cellulose - total dust)

Engineering Controls:

No special ventilation is required under normal use. If handling large amounts of material in an enclosed area, the use of exhaust ventilation may be necessary to keep ambient dust levels as low as possible.

Personal Protective Equipment:

Eye: Avoid eye contact. Wear safety glasses with side shield. Goggles are recommended only if significant dust levels in air.

Skin: Wear suitable gloves.

Respiratory: Dust mask not necessary under normal conditions. Disposable 2-strap half-face dust mask recommended if exposure to high concentrations of dust is likely. Respirators and their use should comply with Australian Standards AS 1716 and AS 1715.

Other: Other protective clothing not required under normal conditions. Coveralls are recommended only if handling large quantities of sorbent. Wash hands before eating, drinking, smoking or using the toilet.

Flammability: Not flammable under conditions of normal use. Explosion is possible only if ambient concentration exceeds 50 kg/m³.

Reactivity: Not reactive under conditions of normal use. As the sorbent is a combustible organic material, it is incompatible with oxidisers. Contact with strong oxidisers could result in ignition of sorbent. Will not polymerise. May evolve significant levels of ammonia gas if in contact with strong alkali or CO₂ if heated above 400 °C. Will evolve minor amounts of heat if mixed with water.

4. SAFE HANDLING INFORMATION

- Storage:** Observe storage instructions on container. Keep container in a dry, cool, ventilated area. Avoid dispersal of dust. Will not spontaneously combust, even when stored in large quantities.
- Transport:** Not classified as a Dangerous Good. No special transport requirements necessary. If decanting material, ensure containers are adequately labelled.
- Spills:**
- General: Wear appropriate protective equipment (See "Precaution for Use" section) to prevent inhalation of dust and skin or eye contact.
- Small Spills: Sweep up but avoid generating ambient dust. Avoid getting the dry powder wet. Do not flush to sewer.
- Large Spills: Collect and place in clean, labelled containers for disposal. Avoid getting the dry powder wet. Do not flush to sewer.
- Disposal:** This product contains natural cellulose materials and can either be discarded into a suitable landfill, or incinerated by approved agents (5% ash). Always consult your applicable State Waste Management authority to ensure proper disposal practices.

Fire/Explosion Hazard:

Combustible solid but difficult to light as the product contains a known fire suppressant. If burning, fire-fighters to treat as a wood fire. Combustion by-products include carbon monoxide, carbon dioxide and acrid smoke. No hazardous decomposition products are known. Extinguishing media include: water spray, carbon dioxide or dry chemical powder.

5. OTHER INFORMATION

This product is not a neutralisation agent but rather an absorbent that allows a safer way of handling casual and emergency acid spills. For most acids, the pH will be adequately neutralised to allow immediate disposal. To handle concentrated acids, apply Acid Absorbent liberally over the acid to suppress the reaction and retard spreading. You will hear a 'fizz' as the soda ash starts reacting with the acid. Then simply add more Acid Absorbent and dampen down with water until the desired pH level is reached. Normally, when the 'fizz' sound dies down, simply add more Acid Absorbent. Stir until the mixture is dry enough to pick up and dispose. Remember, you do not necessarily have to achieve a pH of 7.0 for proper disposal. In fact, doing so often subjects employees to undue exposure to caustics that are not necessary for the safe disposal of acids.

6. CONTACT POINT

Enretech Australasia P/L - Director, Technical Services

(02) 4869 3261 Tel., (02) 4869 3264 Fax

Email: info@enretech.com.au Internet: www.enretech.com.au

If calling from outside Australia:

61 2 4869 3261 Tel.

61 2 4869 3264 Fax

ADVICE NOTE:

This Material Safety Data Sheet (MSDS) summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS and consider the information in the context of how the product will be handled and used in the workplace. When used for liquid spill clean-up, sorbents tend to take on the characteristics of the liquid they have absorbed. Thus, always consult the MSDS of the spilled liquid prior to absorption with Acid Absorbent.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.