

DESTAINEX

SAFETY DATA SHEET

Section 1 **Material identification and supplier**

Product name	DESTAINEX
Other names	No other names
Product Code	D2
Laboratory file	AP005
Document released	July 2002 – New Format
Current update	April 2014
Summary	Destainex is a white free flowing homogenous blend of alkaline and oxyalkaline particulate solids with food standard and environmentally enhanced surfactants.
Suggested use	In a hot aqueous solution to clean and remove wine colour film, protein, black mould/mildew, algae and most organic stains and soils from stainless steel and various hard surfaces with an antimicrobial action.
Company	AIRD - Innovations in Chemistry [®] Wine Industry Support Enterprises Pty. Ltd. ACN 099 644 416 Telephone + 61 8 8285 9100 Fax + 61 8 8285 7099 E-mail info@airdchemistry.com Postal 7 Belfree Drive Green Fields South Australia 5107 Emergency Telephone - Australia 0417 894 682

Section 2 **Hazards identification**

Classification	Hazardous product, non-dangerous goods. IRRITANT (Xi)
Risk phrases	R36/R37/R38 Irritating to the eyes, respiratory system and skin
Safety phrases	S2 Keep out of the reach of children S36/S37/S39 Wear suitable protective clothing, gloves & safety glasses
Poisons schedule	Not applicable

Section 3 **Composition and information on ingredients**

A mixture from	Functional sodium alkaline salts Proprietary chelate Proprietary biodegradable surfactant - from plant derived and renewable substances
Further references	Australian Inventory of Chemical Substances (AICS), Chemical Abstract Service (CAS)

Section 4

First aid measures

First Aid facilities	Eye and hand washing station
Ingestion	<p>The solid and its aqueous solution have a mildly caustic action. It is likely to cause a sore throat, diarrhoea, abdominal pain, nausea & vomiting. It will lead to the production of oxygen gas in the stomach with stomach distention and pain. Rinse the mouth with water. Give water to drink. Do not induce vomiting. If vomiting occurs wash out the mouth with water provided the victim is conscious. Depending on the quantity ingested, arrange for ambulance collection for transfer to hospital or contact the Poisons Information Centre 131 126 and/or seek immediate medical attention.</p>
Eye	<p>The dust and particles are likely to cause eye irritation, and extended granular contact may cause severe optic irritation, although permanent eye damage is not expected. Immediately irrigate with copious amounts of water for at least 15 minutes while holding eyelids open. Seek medical advice if irritation persists.</p>
Skin	<p>A moderate skin irritant. Repeated or prolonged contact with rubbing of granules of this material may lead to local redness, rash and dermatitis on sensitive skins. Wash affected skin with plenty of soap & water. Remove any contaminated clothing & wash before re-use. If irritation persists seek medical advice.</p>
Inhaled	<p>Repeated or prolonged inhalation of dust will cause sneezing and coughing. The vapours or mists from strong aqueous solutions may also irritate the mucous membranes & respiratory tract in some people. Remove the victim from the source of exposure to fresh air. Allow the patient to assume the most comfortable position. Keep the patient warm until fully recovered. Seek medical advice if coughing persists.</p>
Advice to Doctor	Treat symptomatically.
Health effects	Except from ingestion, from available information, no adverse effects are anticipated from repeated over- exposures.

Section 5

Fire fighting measures

Specific hazards	Non-combustible material. A proportion of this product is an oxidising substance, and may support the combustion of other materials.
Fire-fighting advice	Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if there is a risk of exposure to the products of decomposition. Keep the containers cool with water spray. Heating may cause expansion or decomposition which may lead to containers exploding. If safe to do so, remove the containers from the path of the fire.
Extinguishing media	Not combustible, but if this material is involved in a fire use a water fog or fine water spray, foam, or dry agent such as carbon dioxide or dry chemical powder.

Section 6 Accidental release measures

- Ensure that the cleanup is conducted by trained personnel. Shut-off sources of ignition.
- Avoid creating airborne dusts when recovering spilt material. Avoid breathing any existing dusts.
- Increase ventilation on site if dusts are a problem.
- Wear appropriate protective equipment including boots, safety glasses, chemical resistant gloves and an approved respirator for particulate dust.
- Collect by sweeping or vacuuming, scoop, place and seal material in properly labelled containers or drums for disposal according to the local regulations.
- Wash-down affected area with plenty of water.
- Hard surface aqueous solutions may be slippery.

Section 7 Handling and storage

- Handle all packages with due care.
- Avoid contact with the skin and eyes.
- Store in a dry, ventilated, cool place (10-20 °C), and away from incompatible materials and foodstuffs, and out of direct sunlight and away from heat.
- Keep all containers sealed when the product is not in use to maintain quality.
- Check regularly for spillages.

Section 8 Exposure controls, personal protection

Occupational Exposure Limits No value has been assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC)

Published NOHSC Exposure Standard(s) for particulates. Nuisance dust: 8hr TWA = 10mg/m³

TWA Time weighted average airborne concentration over an 8 hour working day, for a 5 day working week over an entire working life.

These exposure standards are only guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and/or dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Control Measures Ensure ventilation is adequate and that air/material concentrations are controlled below quoted Exposure Standards. Avoid generating airborne dusts.
 Personal Protective Equipment Appropriate work clothing and shoes/boots, safety glasses, chemical resistant (PPE) gloves, dust mask/respirator (AS/NZS 1715,1716).

Other protective measures Always wash your hands before smoking, eating, drinking and using the toilet.
 Wash contaminated clothing and other protective equipment before storage or re-use.

Section 9 Physical and chemical properties

Physical state	Granular powder
Colour	White
Odour	Mild, detergent
Molecular formula	Not applicable
Melting point	Not applicable
Solubility in water	Soluble in water ~150 g/L @ 60°C
Specific gravity	~1.05
Particle size	Range 0.05 – 1.0 mm
Flash point	Not applicable
pH	~10.5 - 10.9 (1% w/v aqueous soln.)
Active components	100%

Section 10 Stability and reactivity

- This material is stable when stored and used as recommended.
- As a concentrate it is mildly corrosive toward aluminium and galvanised steel in aqueous solutions combined with a long continuous contact time (bath).
- It will effervesce strongly in contact with an acid.
- This product is hygroscopic.
- Polymerisation will not occur.

Section 11 Toxicological information

No adverse health effects are expected if the product is handled in accordance with this safety data information and the product label. Symptoms or effects that can arise if this product is mishandled are discussed in Section 4 – First Aid Measures as above. The product is an irritant for the eyes and may irritate the skin and respiratory tract.

Long term effects	No information available for this product		
Technological data	Alkaline substances	Oral LD50 (rat)	2400 - 4220 mg/kg
		Eyes (rabbit)	Moderate irritant
		Skin	Mild irritant (human)

Carcinogenicity	The materials are not classified as carcinogenic.
Mutagenicity	The product is non-mutagenic, non teratogenic.

Section 12 Ecological information

Avoid contaminating the environment with concentrated material.
Avoid disposal to natural waterways with concentrated non-neutralized solutions.

Degradability	Aqueous solutions of this product are highly biodegradable (< 30days)
Eco-toxicity	In a dilute aqueous solution it is not expected to harm marine or aquatic life.

Section 13 Disposal considerations

Refer to the Waste Management Authority. Dispose of through a licensed waste contractor.

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Section 14 **Transport information**

Label	In accordance with the SafeWork Australia 'Code of Practice' for workplace substances.	
Road/Rail transport	Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road & rail.	
Marine transport	Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.	
Codes	UN No.	Not required
	DG Class	Not applicable
	Subsidiary Risk	Not applicable
	Packaging Group	Not applicable
	Hazchem Code	None allocated
	EPG	Not required

Section 15 **Regulatory information**

Classification	This product is hazardous according to the criteria of SafeWork Australia. IRRITANT (Xi)	
Risk phrase(s)	R36/37/38	Irritating to the eyes, respiratory system and skin
	S2	Keep out of the reach of children
	S36/37/39	Wear suitable protective clothing, gloves & safety glasses
Poisons schedule	Not applicable	

Chemical Materials are listed on the AICS.

Section 16 Other information

REFERENCES & SOURCES

Registry of Toxic Effects of Chemical Substances

D.Sweet, US Dept of Health and Human Services: Cincinnati 2003.

HERA(Human & Environmental Risk Assessment)

EU Report Summary - March 2002.

Safework Australia-National Occupational Health and Safety Commission.

Approved Criteria for classifying Hazardous Substances [SafeWork:[1008(2004)] 3rd Edition

The criteria included in the Approved Criteria are adopted from European Community (EC) legislation for classifying dangerous substances.

Code of Practice for the Labelling of Workplace Hazardous Chemicals [WHS:2013]

APPROVALS and COMPLIANCE

Australia

The materials in Destainex assist companies to comply with the FSANZ (Food Standards Australia & New Zealand) Standards 1.2.1, 1.2.4, 1.2.6, 1.3.3, 1.4.3.

Destainex complies with the Dept. of Agriculture, Fisheries and Forestry (DAFF), Australian Quarantine Inspection Service (AQIS) and the Organic Federation of Australia (OFA) and affiliates approved substances for organic biodynamic food production.

The National Standard for Organic and biodynamic produce, Edition 3.4 of 1/7/2009

Item 9 – Retail/Wholesale/Export

Substances permitted for sanitation, storage handling, Page 56, Appendix 11, Annex A, Items 1, 3 and 4.

DISCLAIMER

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of this product and general guidance on how to handle the material in the workplace.

If clarification or further information is needed, the user should contact us from the information in the Materials and Supplier information - Section 1 herein.

This information is supplied in good faith, but since data, safety standards & Government regulations are subject to change, and, as the conditions of handling and use or misuse are beyond our control, we make no warranty, either express or implied, with respect to the completeness or accuracy of the information contained herein subsequent to the time of compilation.