

# SAFETY DATA SHEET

Prepared according to GHS Regulations and Code of Practice

## Destainex

### Section 1 IDENTIFICATION. Product identifier & chemical identity

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Product Name DESTAINEX  
Other Names No other names  
Product Code D2  
Current Edition 1<sup>st</sup> January 2018  
Review 2023

Summary Destainex is a white, free-flowing, homogeneous mixture of particulate solids comprising Sodium carbonate, per-carbonate, bicarbonate, chelating and sequestering agents, food grade and environmentally enhanced poly-surfactant, rinse aid.

Recommended use In a cleaning and oxidising regime either in an aqueous solution of a circulatory pressure spray-washing system or by manual wiping or scrubbing to remove wine tartar residues, fresh protein, wine or fruit surface colour and all other organic soils from stainless steel and all other associated hard surfaces.

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### Section 2 HAZARDS IDENTIFICATION.

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Classification This product is hazardous.



Label elements Signal word (GHS07) : WARNING

Physical Hazards H290: May be corrosive to soft metals

Health Hazards H303: May be harmful if swallowed  
H316: Causes mild skin irritation (where surface perspiration is presenting)  
H320: Causes eye irritation  
H335: May cause respiratory irritation (from any airborne dust)  
IF SWALLOWED immediately call a POISON CENTRE or doctor/physician.

Precautionary statement(s)  
P102: Keep out of reach of children  
P233: Keep container tightly closed  
P264: Wash hands thoroughly after handling  
P270: Do not eat or drink when handling this product  
P281: Use personal protective equipment as recommended

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### Section 3 COMPOSITION & INFORMATION ON INGREDIENTS

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A mixture from	Sodium carbonate	CAS	497-19-8
	Sodium bicarbonate	CAS	144-55-8
	Sodium per-carbonate	CAS	15630-89-4
	Proprietary chelate-sequesterant	<i>From biodegradable non-phosphate substances</i>	
	Proprietary anionic/non-ionic/amphoteric surfactant	<i>Plant derived biodegradable blend</i>	
	Lauryl alcohol eo:po adduct	<i>Rinse aid</i>	
Further references	Chemical Abstract Service (CAS)		

### Section 4 FIRST AID MEASURES

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First Aid Facilities	Eye and hand washing station
Ingestion	The solid and its aqueous solution have a mildly caustic action. It is likely to cause a sore throat, diarrhoea, abdominal pain, nausea & vomiting. 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. <b>Seek immediate medical advice.</b>
Eye	The dust and particles are likely to cause eye irritation, and extended granular contact will 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.
Skin	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.
Inhaled	Repeated or prolonged inhalation of dust will cause sneezing and coughing. 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.
Advice to Doctor	Treat symptomatically as for weak alkali-oxidiser exposure.
Health effects	From available information, no adverse effects are anticipated from repeated over-exposures.

### Section 5 FIRE FIGHTING MEASURES

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Specific hazards	Non-combustible material.
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.
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.

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### Section 6 ACCIDENTAL RELEASE MEASURES

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Ensure that the clean-up is conducted by trained personnel.  
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 brooming 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 & STORAGE

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- > 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.  
If subjected to a continuous surrounding hot environment, the oxidising nature of part of the product may be diminished.
- > Keep all containers sealed when the product is not in use to maintain quality and minimise hygroscopic action.
- > Check regularly for spillages.

### Section 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

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#### Occupational Exposure Limits

No value has been assigned for this product by **SafeWork Australia**,  
(Safe Work Australia is an Australian Government statutory agency est.2009)

#### Published NOHSC Exposure Standard(s) for particulates.

Nuisance dust: 8hr TWA = 10mg/m<sup>3</sup>

#### 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 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.

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### Section 9 PHYSICAL & CHEMICAL PROPERTIES

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Physical state	Granular powder
Colour	White
Odour	Slight
Molecular formula	A mixture. Not relevant
Melting Point	Particulate solid. Not applicable
Solubility in Water	Approx. 95 -105g/L @ 20°C
Specific Gravity	Approx.1.05
Particle size Range	0.05 – 1.10 mm
Flash Point (°C)	Not applicable
pH range	10.5 – 10.75 (1% w/v aqueous soln.)
Active components	100%

### Section 10 STABILITY & REACTIVITY

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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

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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		
Toxicological data	Sodium carbonate	Oral LD50 (rat)	4090 mg/kg
		Dermal	Not available
		Inhalation	LC50 2300 mg/m <sup>3</sup> (2 hour period)
		Eyes (rabbit)	Moderate irritant
Carcinogenicity	The materials are not classified as carcinogenic.		
Mutagenicity	The product is non-mutagenic, non-teratogenic.		

### Section 12 ECOLOGICAL INFORMATION

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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

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Refer to the Waste Management Authority.

Dispose of through a licensed waste contractor.

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### Section 14 TRANSPORT INFORMATION

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Label	In accordance with the NOH&SC '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.	Mixture. Not required.
	DG Class	Not applicable, non DG
	Subsidiary Risk	Not applicable
	Packaging Group	Not applicable
	Hazchem Code	None allocated
	EPG	Not required
	AHECC	3402.90.90

### Section 15 REGULATORY INFORMATION

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Under GHS substances are classified according to their physical, health, and environmental hazards. The hazards are communicated via specific labels and the (M)SDS. GHS attempts to standardize hazard communication so that the intended audience (workers, consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use.

Note: The hazard statements and symbols presented here refer to the hazard properties of the concentrated substance and are meant to provide a brief overview of the substance's labelling. It is not intended to be comprehensive or to replace information found in the (M)SDS.

Labelling according to UN GHS is the basis for country specific GHS labelling

Signal word:	Warning
Hazard statements:	Physical, Health and Precautionary Statements Sec.2 Page 1 this SDS

This product is unregulated (No UN code) because of its low risk as a mixture, but if the principle ingredient, Sodium carbonate is assessed then the following chart could be prepared.

H303: May be harmful if swallowed  
H316: Causes mild skin irritation (where surface perspiration is presenting)  
H320: Causes eye irritation  
H335: May cause respiratory irritation (from any airborne dust)  
IF SWALLOWED immediately call a POISON CENTRE or doctor/physician.

#### HAZARDS SUMMARY

Health=1      Instability=0      Flammability=0      Special Haz=ALK

Where 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, Special Hazards

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### Section 16 OTHER INFORMATION

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#### REFERENCES

*Registry of Toxic Effects of Chemical Substances*

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

*HERA(Human & Environmental Risk Assessment)- Sodium Carbonate/Sodium percarbonate*

**HERAPROJECT EU Report Summary - March 2002.**

*Approved Criteria for classifying Hazardous Substances,*

*National Code of Practice for the Labelling of Workplace Substances,*

*Preparation of Safety Data Sheets for **Hazardous** Chemicals*

*Managing Risks of **Hazardous** Chemicals in the Workplace*

**Safework Australia (National Occupational Health and Safety Commission)**

#### APPROVALS and COMPLIANCE

##### Canada

CFIA Notification – Approved for use as a food surface (non-food) chemical product 2009/9/30.

HACCP Food Safety Enhancement Programme (FSEP).

##### Australia

The materials in Destainex assist companies to comply with the FSANZ (Food Standards Australia & New Zealand) Standard.

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, Page 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.