

NOHSC 16 Section

# Material Safety Data Sheet

## NINHYDRIN

**Infosafe™** JXFIU **Issue Date** November 2007 **Status** ISSUED by BS: 1.9.46  
**No.** AJAXFC

**Classified as hazardous according to criteria of NOHSC**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** NINHYDRIN

**Product Code** 801

**Company Name** Ajax Finechem (ABN 64 121 927 786)

**Address** 17/21 Bay Road Taren Point  
NSW 2229

**Emergency Tel.** 1800 638 556 (24 hr) Aust / (NZ): 0800 154 666

**Telephone/Fax Number** Tel: 1300 884 078

**Recommended Use** Chemical intermediate; reagent for determination of amines, amino acids and ascorbic acid.

<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	NINHYDRIN	10618

**Other Information** NEW ZEALAND: Ajax Finechem (NZ) Ltd  
150B Harris Road, East Tamaki, Auckland  
Phone (09) 273 4343  
Fax (09) 273 4341  
Emergency Advice (NZ): Phone 0800 154 666

### 2. HAZARDS IDENTIFICATION

**Hazard Classification** Australia:  
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous

Substances (Minimum Degrees of Hazard) Regulations 2001.  
Not classified as Dangerous Goods for transport according to the  
New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on  
Land.

HSNO Classification:

- 6.1D - Substance that is acutely toxic.
- 6.3A - Substance that is irritating to the skin.
- 6.4A - Substance that is irritating to the eye.
- 9.3C - Substance that is harmful to terrestrial vertebrates.

**Risk Phrase(s)** R22 Harmful if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Phrase(s)** S22 Do not breathe dust.  
S26 In case of contact with eyes, rinse immediately with plenty of  
water and seek medical advice.  
S20/21 When using, do not eat, drink or smoke.  
S24/25 Avoid contact with skin and eyes.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face  
protection.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Ninhydrin	485-47-2	100 %

### 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove to fresh area. Keep at rest until recovered. If symptoms persist seek medical attention.

**Ingestion** If swallowed, do not induce vomiting. Wash out mouth and lips thoroughly with water. Seek immediate medical attention.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation develops seek medical attention.

**Eye** If in eyes, hold eyelids apart and flush the eyes immediately with running water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.

**First Aid Facilities** Eye wash station, safety shower and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Foam, dry chemical powder, carbon dioxide, water spray or water fog.

<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.
<b>Specific Hazards</b>	Combustible solid; will burn under fire conditions. The finely divided dust, in sufficient quantity, may form flammable/explosive mixtures with air. Dust clouds may present an explosion hazard in the presence of an ignition source.
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Wear appropriate personal protective equipment and clothing to prevent inhalation and eye exposure. Sweep up material avoiding dust generation or where possible use dustless methods such as vacuum to collect the material and transfer into suitable labelled containers for the subsequent recycling or disposal. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.
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## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Wear appropriate protective equipment to prevent inhalation and eye exposure. Use in designated areas with adequate ventilation. Prevent the creation of dust in the work atmosphere. Keep containers closed when not in use. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.
<b>Conditions for Safe Storage</b>	Store in a cool, dry and well-ventilated area away from oxidising agents. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	<p>No exposure standards have been established for the mixture by the Australian National Occupational Health &amp; Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.</p> <p>The exposure limits for dust not otherwise specified are as follows:</p> <p>Australian National Occupational Health And Safety Commission (NOHSC) exposure standards:  Dust TWA 10 mg/m<sup>3</sup> (inspirable fraction)  New Zealand Workplace Exposure Standards (OSH):  Dust TWA 10 mg/m<sup>3</sup> (inspirable fraction); TWA 3 mg/m<sup>3</sup> (respirable fraction)  TWA (Time Weighted Average): The average airborne concentration of</p>
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a particular substance when calculated over a normal eight-hour working day, for a five-day week.

**Biological Limit**

**Values** No biological limit allocated.

**Engineering Controls**

Provide adequate ventilation to keep airborne levels below the exposure limits. Where dust is generated, a local exhaust ventilation system, drawing dust away from workers' breathing zone is required.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a particulate/dust filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection**

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear laminated film or other suitable, impervious gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

Off white solid, odourless.

**Melting Point**

241-243°C (Decomposes)

**Boiling Point**

Not available

**Solubility in Water**

Soluble

**Solubility in Organic Solvents**

Soluble in alcohols; slightly soluble in ether and chloroform.

**Specific Gravity**

Not available

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

6.16 (Air=1)

**Density**

0.44 g/cm<sup>3</sup>

**Flash Point**

Not applicable

**Flammability**

Combustible solid.

**Auto-Ignition Temperature**

Not available

**Flammable Limits**

- Lower Not applicable

**Flammable Limits**

- Upper Not applicable

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## 10. STABILITY AND REACTIVITY

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**Chemical**

**Stability** Stable under normal conditions of handling and storage.

**Incompatible**

**Materials** Strong oxidising agents.

**Hazardous**

**Decomposition Products** Thermal decomposition products include carbon monoxide and carbon dioxide.

**Hazardous**

**Polymerization** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology**

**Information** Not available

**Inhalation**

Irritating to respiratory system. Symptoms may include coughing and breathing difficulties.

**Ingestion**

Harmful if swallowed. Ingestion may irritate the gastric tract, causing nausea and vomiting.

**Skin**

Irritating to skin. Skin contact will cause redness and itchiness.

**Eye**

Irritating to eyes. Eye contact will cause tearing, stinging, blurred vision and redness.

**Chronic Effects**

Prolonged or repeated exposure to dust by inhalation may lead to respiratory disorders.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Not available

**Persistence /  
Degradability**

Not available

**Mobility**

Not available

**Bioaccumulative  
Potential**

Not available

**Environment**

**Protection** Do not allow product to enter drains, waterways or sewers.

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### 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations** The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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### 14. TRANSPORT INFORMATION

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**Transport Information** Australia:  
Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:  
Not classified as Dangerous Goods for transport according to the NZS 5433:1999 Transport of Dangerous Goods on Land.

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### 15. REGULATORY INFORMATION

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**Regulatory Information** Australia:  
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule** Not Scheduled

**National and or International Regulatory Information** New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
ERMA Approval Code: HSR005055; Ninhydrin.

**Hazard Category** Harmful, Irritant

**AICS (Australia)** All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

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### 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** MSDS Reviewed: November 2007  
Supersedes: November 2007

**Contact Person/Point** For further information contact Tom Sadler on 1300 884 078 during business hours. In case of emergency call Australia 1800 638 556/  
New Zealand 0800 154 666.

IMPORTANT ADVICE: This MSDS summarizes 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 should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ajax Finechem Pty Ltd. 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.

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End of MSDS

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