



NOHSC 16 Section

Material Safety Data Sheet

UNIVERSAL INDICATOR SOLUTION

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No. AJAXFC 1.10.9

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name UNIVERSAL INDICATOR SOLUTION

Product Code 613

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 pH indicator solution.

Other Names Not Available

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:
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
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 Hazardous Substances (Classification) Regulations 2001, New Zealand.

Classified as Dangerous Goods for transport, according to the NZS 5433:1999 Transport of Dangerous Goods on Land.

HSNO Classification:

3.1B - Flammable liquid: High hazard.

6.4A - Substance that is irritating to the eye.

9.1D - Substance that is slightly harmful to the aquatic environment.

Hazard statement codes:

H225 Highly flammable liquid and vapour.

H320 Causes eye irritation.

H402 Harmful to aquatic life.

Precautionary statement codes - Prevention:

P102 Keep out of reach of children.

P103 Read label before use.

P104 Read Safety Data Sheet before use.

P210 Keep away from heat/sparks/open flames/hot surfaces.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash hands and exposed skin thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.

P273 Avoid release to the environment.

Precautionary statement codes - Response:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

PP303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical powder.

Precautionary statement codes - Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statement codes - Disposal:

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

Risk Phrase(s) R11 Highly flammable.

Safety Phrase(s) S7 Keep container tightly closed.
S16 Keep away from sources of ignition - No smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33 Take precautionary measures against static discharges.
S23(2) Do not breathe vapour.
S36/37 Wear suitable protective clothing and gloves.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
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Methylated spirits 64-17-5 30-60 %
Other ingredients To 100%
determined not be
hazardous

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop 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 and normal washroom facilities.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use carbon dioxide, dry chemical or foam.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Specific Hazards This product is highly flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

Hazchem Code 3[Y]E

Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes and 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

Emergency Procedures Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert, absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Do not empty into drains. Maintain a high level of personal hygiene when using the product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, acids, foodstuffs, and clothing, and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Always keep in containers made of the same material as the supply container. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all State and Federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the exposure standards for the ingredients are stated below:

Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:

Substance TWA STEL
ppm mg/m³ ppm mg/m³ Notices
Ethanol 1000 1880 - - -

New Zealand Occupational Safety and Health Service (OSH)
Workplace Exposure Standards:

Substance TWA STEL

ppm mg/m³ ppm mg/m³ Notices

Ethanol 1000 1880 - - -

As published by the National Occupational Health and Safety Commission (NOHSC) and the New Zealand Occupational Safety and Health Service (OSH).

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Engineering Controls	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with an organic vapour/particulate 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, nitrile or other suitable gloves conforming to AS/NZS 2161: Occupational protective gloves.
Body Protection	Suitable work wear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist, or laboratory coat. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Green solution which may develop a red colour during storage.
Odour	Characteristic alcoholic odour.
Melting Point	-117°C
Boiling Point	78°C
Solubility in Water	Soluble
Specific Gravity	0.79-0.81 at 20°C
Vapour Pressure	44 mmHg at 20°C

Vapour Density (Air=1)	1.59 at 15°C (Air=1)
Evaporation Rate	2.53 (n-Butyl acetate=1)
Flash Point	13°C (Abel closed cup)
Flammability	Highly flammable liquid.
Auto-Ignition Temperature	392°C
Flammable Limits - Lower	3.5%
Flammable Limits - Upper	19.0%

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Incompatible Materials	Strong oxidising agents, acids, acid chlorides, acid anhydrides, alkali metals and ammonia. Do not store in aluminium containers.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	For Ethanol: LD50 (Oral, Rat): 7,060 mg/kg LD50 (Oral, Mouse): 3,450 mg/kg LC50 (Inhalation, Rat): 20,000 ppm/10h LC50 (Inhalation, Rat): >8,000 ppm/4h
Inhalation	May cause irritation to the respiratory tract and mucous membranes. Inhalation of the vapour may result in headache, nausea and vomiting. High concentrations may cause central nervous system symptoms similar to those of ingestion.
Ingestion	Swallowing can cause drunkenness or harmful central nervous system effects. Effects excitation, euphoria, headache, dizziness, drowsiness, blurred vision and fatigue. Aspiration into the lungs may cause lung injury or death.
Skin	May cause redness, itching and irritation.
Eye	May be irritating to eyes. On eye contact this product may cause tearing, stinging, blurred vision, and redness.

Chronic Effects Prolonged or repeated skin contact may cause defatting leading to dermatitis. Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidney, gastrointestinal tract and heart muscle.

12. ECOLOGICAL INFORMATION

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.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

**Transport
Information** Australia:
This material is classified as a Class 3 (Flammable Liquid) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 2.1, Flammable Gas, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gas
- Class 4.2, Spontaneously Combustible Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane
- Class 7, Radioactive Substance

New Zealand:
This material is classified as a Class 3 - Flammable Liquid according to NZS 5433:1999 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Class 2.1, Flammable gases
- Class 2.3, Toxic gases
- Class 4.2, Spontaneously combustible substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides or

- Class 7, Radioactive materials unless specifically exempted. Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:
- Class 4.3, Dangerous when wet substances
Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:
- Class 4.2, Spontaneously combustible substances
- Class 4.3, Dangerous when wet substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides

U.N. Number 1993

Proper Shipping

Name FLAMMABLE LIQUID, N.O.S. - (CONTAINS METHYLATED SPIRITS)

DG Class 3

Hazchem Code 3[Y]E

Packaging

Method 3.8.3RT1

Packing Group II

EPG Number 3A1

IERG Number 14

15. REGULATORY INFORMATION

**Regulatory
Information**

Australia:
Not 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: HSR006424; Ethanol, >50% in a non hazardous diluent.

Hazard Category Highly Flammable

16. OTHER INFORMATION

**Date of
preparation or
last revision
of MSDS**

MSDS Reviewed: December 2007
Supersedes: December 2002

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.

End of MSDS

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