



Material Safety Data Sheet

BENEDICTS SOLN QUALITATIVE

Infosafe™ JXFKE **Issue Date** August 2012 **Status** ISSUED by BS: 1.11.6
No. AJAXFC

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name BENEDICTS SOLN QUALITATIVE

Product Code 735

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): Phone 0800 154 666

Telephone/Fax Number Tel: 1300 884 078

Recommended Use Not available

Other Names Not Available

Other Information NEW ZEALAND:
Thermo Fisher Scientific New Zealand Ltd
244 Bush Road, Albany
Auckland, New Zealand
Ph: 09 980 6700
Fax: 09 980 6788
Email: NZinfo@thermofisher.com
Emergency Advice (NZ): Phone 0800 154 666

2. HAZARDS IDENTIFICATION

Hazard

Australia:

Classification

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 (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

6.3A - Substance that is irritating to the skin
6.4A - Substance that is irritating to the eyes
6.5B - Substance that is a contact sensitiser
6.9B (Repeated exposure) - Substance that is harmful to human target organs or systems
9.1B - Substance that is ecotoxic in the aquatic environment

Hazard statement codes:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs by ingestion.
H411 Toxic to aquatic life with long lasting effects.
Precautionary statement codes - Prevention:
P103 Read label before use.
P104 Read Safety Data Sheet before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement codes - Response:

GENERAL

P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.

EYE

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.

SKIN

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P362 Take off contaminated clothing and wash before re-use.
P363 Wash contaminated clothing before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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. See Section 13 for disposal details.

Risk Phrase(s) R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s) S29 Do not empty into drains.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Copper (II) sulphate	7758-99-8	0-10 %
	Sodium carbonate	497-19-8	0-1 %
	Tri-Sodium citrate	68-04-2	0-1 %
	Ingredients determined not to be hazardous		Balance

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.
First Aid Facilities	Eyewash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable**Extinguishing Media**

Use carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred. If not available normal foam can be used.

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 non-combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn. As a water based product, if spilt on electrical equipment the product will cause short-circuits.

Hazchem Code •3Z

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable

local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure value assigned for this specific material by the Safe Work, Australia. However, the available exposure limits for ingredients are listed below:
Safe Work, Australia Exposure Standards:

Substance TWA STEL NOTES
ppm mg/m³ ppm mg/m³
Copper (II) sulphate - 1.0 - - (As copper, dusts & mists)

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

Substance TWA STEL NOTES
ppm mg/m³ ppm mg/m³
Copper (II) sulphate - 1.0 - - (As copper, dusts & mists)
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.

Biological Limit Values

No biological limits allocated.

Engineering Controls

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist filter should be used. Reference should be made to Australian/New Zealand 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 gloves of impervious material e.g. nitrile, neoprene or other impervious, suitable 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 work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear solution.

Odour Not available

Melting Point Not available

Boiling Point Not available

Solubility in Water Soluble

Specific Gravity Not available

pH Value 10 (Approximate)

Vapour Pressure Not available

Vapour Density (Air=1) Not available

Colour Deep blue

Flash Point Not available

Flammability Non-combustible (Aqueous liquid)

Auto-Ignition Temperature Not available

Flammable Limits

- Lower Not available

Flammable Limits

- Upper Not available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions of storage and handling.

Conditions to Avoid Extremes of temperature and direct sunlight.

Incompatible Materials Oxides of carbon, oxides of nitrogen and oxides of sulphur.

Hazardous Decomposition Products Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including Carbon monoxide, carbon dioxide and smoke.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicity data available for this product.

Inhalation Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin May be irritating to skin. The symptoms may include redness, itching and swelling.

Eye May be irritating to eyes. The symptoms may include redness, itching and tearing.

Chronic Effects Prolonged or repeated skin contact may cause defatting leading to dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence / Degradability Not available

Mobility Not available

Bioaccumulative Potential Not available

Environment Protection Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

**Disposal
Considerations**

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. In this specific case the product is water-based/water-soluble and therefore can be sent through a Waste Water Treatment Plant and after treatment can be discharged into environment through the sewerage or drainage systems as authorized. Do not dispose directly into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

14. TRANSPORT INFORMATION

**Transport
Information**

Australia Road and Rail

This material is classified as a Class 9 (Miscellaneous Dangerous Goods) dangerous Goods according to The Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition). Class 9 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives (when the class 9 substance is a fire risk substance),
- Division 5.1, Oxidizing agents (when the class 9 substance is a fire risk substance), and
- Division 5.2, Organic peroxides (when the class 9 substance is a fire risk substance).

Note: Special Provision AU01

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in:

- a) packagings;
- b) IBCs; or
- c) any other receptacle not exceeding 500 Kg(L).

New Zealand Road and Rail

This material is classified as a Class 9 - Miscellaneous Substances according to NZS 5433:2012 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 9 dangerous goods that contain organic matter must not be loaded in the same bulk container or tankwagon with dangerous goods of Division 5.1 unless the Class 9 and Division 5.1 dangerous goods are in separate compartments of a bulk container or tankwagon. 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. Segregation devices may be used to segregate Dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of Class 3, 4, 5, 6 or 8 or from food items.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN-No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains: Copper (II) sulphate)

Class: 9

Packaging Group: III

EMS No.: F-A, S-F

Special provisions: 274 335

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN-No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains: Copper (II) sulphate)

Class: 9

Packaging Group: III

Label: Miscellaneous

Packaging Instructions (passenger & cargo): 964

Packaging Instructions (cargo only): 964

Special provisions: A97 A158

U.N. Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains: Copper (II) sulphate)

DG Class 9
Hazchem Code •3Z
Packing Group III
EPG Number 9C1
IERG Number 47
IMDG Marine Pollutant (MP) Yes

15. REGULATORY INFORMATION

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

Poisons Schedule S5

National and or International Regulatory Information New Zealand:
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Group Standard: Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006

HSNO Approval Number HSR002503

Hazard Category Dangerous for the environment

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Reviewed: August 2012
MSDS Superseded: August 2007

Contact Person/Point For further information contact the Compliance Manager on (02) 9524 0757 during business hours. In emergencies Australia 1800 638 556

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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Print Date: 31/08/2012

BS: 1.11.6