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Infosafe No™ JXF1K RE-ISSUED by THERMOF Issue Date : July 2013

Product Name SODIUM HYDROXIDE 60% W/V

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

SODIUM HYDROXIDE 60% W/V **Product Name**

Product Code

Ajax Finechem (ABN 64 121 927 786) Company Name

Address 17/21 Bay Road Taren Point

NSW 2229 Australia

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

Telephone/Fax

Tel: 1300 884 078

Number toms@ajaxfinechem.com Email

Chemicals manufacture; neutralising agent; pulp and paper, aluminium, **Recommended Use**

detergent, and textile processing; vegetable oil refining; reclaiming rubber;

	etching and electroplating.		
Other Names	Name	Product Code	
	SODIUM HYDROXIDE 1MOL	10742	
	SODIUM HYDROXIDE 40% W/V	1719	
	SODIUM HYDROXIDE 10% W/W	4400	
	SODIUM HYDROXIDE 1MOL	1387	
	SODIUM HYDROXIDE 60% W/V	A22	
	SODIUM HYDROXIDE 60% W/V	A2220	
	SODIUM HYDROXIDE 40% W/V	A23	
	SODIUM HYDROXIDE 40% W/V	A2320	
	SODIUM HYDROXIDE 40% W/V	A235	
	Sodium Hydroxide 50% W/W Solution	1720	
Other Information	NEW ZEALAND: Thermo Fisher Scientific New Zealand 244 Bush Road, Albany, Auckland Phone: 09 980 6700	Limited	

Fax: 09 980 6788

Emergency Advice (NZ): Phone 0800 154 666

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous

Australia:

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 NZS 5433:2007 Transport of Dangerous Goods on Land.

HSNO Classification:

6.1D - Substance that is acutely toxic if swallowed.

6.1E - Substance that is acutely toxic in contact with skin.

8.1A - Substance that is corrosive to metals.

8.2B - Substance that is corrosive to dermal tissue. 8.3A - Substance that is corrosive to ocular tissue.

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

Hazard Statement Codes:

H302 Harmful if swallowed.

H313 May be harmful in contact with skin.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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H402 Harmful to aquatic life.

Precautionary Statement Codes- Prevention:

P102 Keep out of reach of children. - This statement applies only where the substance is available to the general public.

 ${\tt P103}$ Read label before use. - This statement applies only where the substance is available to the general public.

P104 Read Safety Data Sheet before use.

P260 Do not breathe mist, vapours or spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

 $\ensuremath{\text{P280}}$ Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary Statement Codes- Response:

P101 If medical advice is needed, have product container or label at hand. - This statement applies only where the substance is available to the general public.

P390 Absorb spillage to prevent material damage.

INHALATION:

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTRE or doctor/physician.

INGESTION:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTRE or doctor/physician.

SKIN:

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P310 Immediately call a POISON CENTRE or doctor/physician.

P363 Wash contaminated clothing before reuse.

EYES:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.

Precautionary Statement Codes - Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

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)

Classified as hazardous

R35 Causes severe burns.

Safety Phrase(s)

S23(2) Do not breathe vapour. S23(3) Do not breathe spray.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Sodium Hydroxide	1310-73-2	10-60 %		
	Water	7732-18-5	To 100%		

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4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not

breathing. Seek immediate medical attention.

Ingestion Do NOT induce vomiting. Immediately wash out mouth and lips with copious

amounts of water. Seek immediate medical attention.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin

and hair with running water. Seek immediate medical attention.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running

water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical

attention.

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 Use appropriate fire extinguisher for surrounding environment.

Extinguishing Media

Hazards from

Under fire conditions, it may decompose and produce corrosive and/or toxic

Combustion fumes.

Products

Specific Hazards Non-combustible liquid, however reaction with metals will produce extremely

flammable hydrogen gas.

Hazchem Code 27

Precautions in connection with Fire

Fire-fighters should wear full protective clothing and self contained

breathing apparatus (SCBA) operated in positive pressure mode. Water spray may

be used to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Increase ventilation. Evacuate all unprotected personnel. Wear protective clothing and equipment to prevent exposure. If possible contain the spill. If necessary place inert absorbent onto material. Prevent run off into drains and waterways. Use clean non-sparking tools to collect the material and place into suitable, labelled containers. 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.

7. HANDLING AND STORAGE

Precautions for Safe Handling Corrosive liquid. Attacks skin and eyes. May produce severe burns. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this 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 away from oxidising agents, acids, aluminium, zinc, tinand ammonium salts. Keep containers closed

when not being used.

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, exposure standards for ingredients are stated below:

Labour. However, exposure standards for ingredients are stated below:
Australian National Occupational Health And Safety Commission (NOHSC) Exposure

Standards:

Substance TWA STEL Notices

ppm mg/m³ ppm mg/m³

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Sodium hydroxide - 2 - - (Peak

Limitation)

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

Standards:

Substance TWA STEL ppm mg/m³ ppm mg/m³

Sodium hydroxide - 2 - - (Ceiling)

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.

eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a

measurement period which should be as short as possible but not exceeding 15 minutes.

Ceiling: A concentration that should not be exceeded during any part of the

working day.

Biological Limit Values No biological limit allocated.

Engineering Controls

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where natural ventilation is inadequate, and vapours or mists are generated, a local exhaust ventilation system, drawing vapours/mists away from

workers' breathing zone, should be used.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/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, goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as laminated film, PVC or nitrile 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Water-white to slightly coloured liquid.

Melting Point12°CBoiling Point140°CSolubility in WaterSolubleSpecific Gravity1.48-1.52

pH Value 14

Vapour Pressure Not available

Vapour Density >1

(Air=1)

Evaporation Rate

<1 (n-Butyl acetate=1)

Viscosity 180 cps at 25°C

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Not applicable **Flash Point**

Non-combustible liquid. Flammability

Auto-Ignition

Not available

Temperature

Not applicable Flammable Limits -

Lower

Flammable Limits -Not applicable

Upper

10. STABILITY AND REACTIVITY

Stable under normal conditions. **Chemical Stability**

Incompatible Materials

Corrosive to aluminium, zinc and tin, liberating flammable hydrogen gas. Reacts violently with acids. Reacts with ammonium salts liberating ammonia gas. Absorbs carbon dioxide from air. Reacts exothermically on dilution with

water.

Hazardous Will not occur.

Polymerization

11. TOXICOLOGICAL INFORMATION

No toxicity data are available for this specific product. The available data **Toxicology**

for the ingredients are as follows: Information

For sodium hydroxide:

LD50(Intrapertioneal, Mouse): 40 mg/kg Skin (rabbit) severe irritation: 500 mg/24hr Eyes (rabbit) severe irritation: 1 mg/30 sec rinse

Highly corrosive to any tissue with which it comes into contact. Produces burns, deep ulceration and gelatinous necrotic areas at the site of contact.

Low systemic toxicity.

Inhalation Inhalation of mists or vapours will result in severe respiratory irritation

and possible harmful corrosive effects including lesions of the nasal septum,

pulmonary edema, pneumonitis and emphysema.

Ingestion of this product may cause nausea, vomiting, abdominal pain and Ingestion

chemical burns to the mouth, throat and stomach.

Corrosive to skin. Skin contact will cause redness, severe burns with Skin

resultant tissue destruction.

Causes severe burns. Eye contact will cause stinging, blurring, tearing, Eye

severe pain and possible permanent corneal damage. Burns to the eye may cause

blindness.

Chronic exposure by inhalation may lead to respiratory disorders, or it may Chronic Effects

aggravate existing respiratory disorders such as emphysema and chronic

bronchitis. Prolonged or repeated skin contact may lead to dermatitis in some

individuals.

12. ECOLOGICAL INFORMATION

Not available **Ecotoxicity** Not available Persistence /

Degradability

Not available **Mobility** Not available Bioaccumulative

Potential

Do not discharge into drains, waterways or sewers. **Environ. Protection**

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface Disposal waters may be affected. Wastes including emptied containers are controlled Considerations

wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

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Transport Information

Australia:

This material is classified as a Class 8 Corrosive Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 4.3, Dangerous When Wet Substance
- Class 5.1, Oxidising Agent - Class 5.2, Organic Peroxide
- Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substance

And are incompatible with food and food packaging in any quantity.

New Zealand:

This material is classified as a Class 8 Corrosive Substance according to NZS 5433:2007 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 5.1, Oxidising substances
- Class 5.2, Organic peroxides
- Class 7, Radioactive materials unless specifically exempted And are incompatible with food and food packaging in any quantity.

Note 1: Cyanides (Class 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).

Note 2: Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

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 4.3, Dangerous when wet substances
- Class 5.1, Oxidising substances Class 5.2, Organic peroxides

And are incompatible with food and food packaging in any quantity.

U.N. Number 1824

Proper Shipping

SODIUM HYDROXIDE SOLUTION

Name

Packaging Method 3.8.8RT8

Packing Group II EPG Number 8A1 IERG Number 37

15. REGULATORY INFORMATION

Regulatory Australia:

Information Classified as hazardous according to criteria of National Occupational Health

& Safety Commission (NOHSC), Australia.

Classified as a Scheduled Poison S6 according to the Standard for the Uniform

Scheduling of Drugs and Poisons (SUSDP).

Poisons Schedule S6

National and or New Zealand:

International Classified as Hazardous according to the Hazardous Substances (Classification)

Regulatory
Information
Regulations 2001.
Group Standard:

Information Group Standard:
Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2006

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HSNO Approval Number: HSR002491.

All components of this product are listed on the New Zealand Inventory of

Chemicals (NZIC).

Hazard Category

Corrosive

AICS (Australia)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS), or otherwise are in compliance with the NICNAS

requirements.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS

MSDS Reviewed: November 2008 Supersedes: October 2003

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

> 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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