

Material Safety Data Sheet

ACETONE

Infosafe No. AJ1VL **Version** 1.0 **ISSUED** December **Status** ISSUED
No. **Date** 2009 by
NUPLEXIN

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name

ACETONE

Product Code

A8

Company Name

NUPLEX COMPOSITES a division of Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)

Address

Australia: 49 - 61 Stephen Road, BOTANY NSW 2019

AUSTRALIA

New Zealand: NUPLEX COMPOSITES a division of Nuplex Industries Limited, 6 Winston Place

HENDERSON Auckland

NEW ZEALAND

Emergency Tel.

Australia: 1800 022 037 (24H)

New Zealand: 0800 154 666 (24H)

Telephone/Fax NumberTelephone: Australia: +61 (02) 9839 4000(BH); New Zealand: +64 (09) 579 4100(BH) Fax
number: Australia: +61 (02) 9674 6225; New Zealand: +64 (09) 571 0542**Recommended Use**

Solvent used in the processing of resins, lacquers, waxes, adhesives, inks, paints and plastics.

2. HAZARDS IDENTIFICATION

Hazard Classification

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:

- 3.1B - Flammable liquid: high hazard
- 6.1E - Substance that is acutely toxic (Oral)
- 6.3B - Substance that is irritating to the skin
- 6.4A - Substance that is irritating to the eyes

Hazard Statement Codes:

- H225 Highly flammable liquid and vapour.
- H303 May be harmful if swallowed.
- H316 Causes mild skin irritation.
- H320 Causes eye irritation.

Precautionary Statement Codes- Prevention:

- P102 Keep out of reach of children.
- 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.
- P210 Keep away from heat/sparks/open flames/hot surfaces.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe fume/gas/mist/vapours/spray
- P264 Wash skin and hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/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.
- P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical to extinguish fire.

INGESTION

- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P331 Do NOT induce vomiting.

SKIN

- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P332+P313 If skin irritation occurs: Get medical advice/ attention.

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

Precautionary Statement Codes - Storage:

- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

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.
- R36 Irritating to eyes.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

Safety Phrase(s)

- S9 Keep container in a well-ventilated place.
- S16 Keep away from sources of ignition - No smoking.
- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S29 Do not empty into drains.
- S33 Take precautionary measures against static discharges.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	EINECS	Proportion
ACETONE	67-64-1	200-662-2	100 %

4. FIRST AID MEASURES

Inhalation

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

Ingestion

Never give anything by mouth if victim is semi-conscious or unconscious. Immediately wash out mouth with water and then give plenty of water to drink. Seek medical attention.

Skin

Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

Eye

If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

First Aid Facilities

Eye wash and normal wash room 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 water fog. CO₂, dry chemical or alcohol resistant foam.

Hazards from Combustion Products

Carbon dioxide and carbon monoxide.

Specific Hazards

This product is extremely flammable. Vapours are heavier than air and will 'travel' to low-level areas e.g. sumps, drains, etc. and flashback. Precautions should be taken to eliminate the build up of explosive mixtures. The fire could easily be spread by the use of water in the area where the water could not be contained. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool.

Hazchem Code

•2YE

Precautions in connection with Fire

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA).

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 unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use water spray to disperse vapours and dilute spill to a non flammable mixture. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. Do not allow spill to enter drains, sewers or waterways. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke. Exposure without protection should be prevented. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, 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. Do not stack more than 3 pallets high. 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

Exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour.

National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards:
Substance TWA STEL NOTICES
ppm mg/m³ ppm mg/m³
Acetone 500 1185 1000 2375 -

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:
Substance TWA STEL NOTICES
ppm mg/m³ ppm mg/m³
Acetone 500 1185 1000 2375 -

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 limit allocated.

Engineering Controls

Provide sufficient ventilation to keep airborne levels below the exposure limit. 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: 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 respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. 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.

Eye Protection

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. 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 ie. chemical resistant 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

Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Colourless, mobile liquid.

Odour

Characteristic sweet/fruity odour.

Melting Point

-95°C

Boiling Point

56°C

Solubility in Water

100g/100 mL

Solubility in Organic Solvents

Soluble in common organic solvents.

Specific Gravity

0.791 @ 20°C (water=1)

pH Value

Not available.

Vapour Pressure

187hPa @ 20°C

Vapour Density (Air=1)

2.0 (Air = 1)

Volatile Component

100%

Flash Point

-20°C

Flammability

HIGHLY FLAMMABLE. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition. Electrically link and ground metal containers for transfers of the product to prevent accumulation of static electricity. Keep the container tightly closed.

Auto-Ignition Temperature

465°C

Flammable Limits - Lower

3%v/v

Flammable Limits - Upper

13%v/v

Molecular Weight

58.08

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of use.

Conditions to Avoid

Heat, direct sunlight, open flames or other sources of ignition and incompatibles.

Incompatible Materials

Strong oxidizing agents, strong acids.

Hazardous Decomposition Products

Carbon dioxide and carbon monoxide.

Hazardous Reactions

Reacts violently with bromoform and chloroform in the presence of alkalis or in contact with alkaline surfaces. Decomposes violently in contact with nitric/sulfuric acid mixtures. Can react violently with oxidising agents.

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Oral LD50 (rat): 9750 mg/kg

Inhalation LC50 (rat): >16,000 ppm/4hr

Dermal LD50 (rabbit): >20ml/kg (slight irritation).

Eye Irritation (rabbit): Moderate.

Inhalation

May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, nausea and vomiting.

Ingestion

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

Skin

May cause redness, itching and irritation. Prolonged contact with skin may cause blistering, and repeated contact may have a defatting effect causing dryness and cracking.

Eye

Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Chronic Effects

Repeated or prolonged skin contact can cause severe irritation or dermatitis. Contact with this product over long periods can aggravate pre-existing medical conditions. Use of alcoholic beverages enhances toxic effects. Exposure may increase the toxic potential of chlorinated hydrocarbons, such as chloroform, trichloroethane.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product has a potential to cause oxygen depletion in aqueous systems.
A low potential to affect aquatic organisms.
A low potential to affect secondary waste treatment microbial metabolism.
A low potential to affect the growth of some plant seedlings.
Overall this product is not expected to cause adverse environmental effects.

Persistence / Degradability

This product has a high potential to degrade.
ThOD: 2.20g oxygen/g
COD: 1.12-2.07g oxygen/g
BOD-5: 0.31-1.85g oxygen/g
BOD-20: 1.78g oxygen/g

Mobility

This product has a low potential to persist in the environment.

Environ. Protection

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

Acute Toxicity - Fish

96hr LC50 (fathead minnow): 7,280 - 8,120mg/l

Acute Toxicity - Daphnia

24hr LC50 (Daphnia): >10,000mg/l
24hr EC50 (Daphnia): >10,000mg/l

13. DISPOSAL CONSIDERATIONS

Disposal Considerations

Dispose of waste according to federal, EPA and state 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 5433:2007 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 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

1090

Proper Shipping Name

ACETONE

DG Class

3

Packing Group

II

Hazchem Code

•2YE

IERG Number

14

UN Number (Air Transport, ICAO)

1090

IATA/ICAO Proper Shipping Name

ACETONE

IATA/ICAO Hazard Class

3

IATA/ICAO Packing Group

II

IATA/ICAO Symbol

Flammable liquid.

IMDG UN No

1090

IMDG Proper Shipping Name

ACETONE SOLUTIONS

3

IMDG Pack. Group

II

IMDG Marine Pollutant

No

IMDG EMS

F-E, S-D

15. REGULATORY INFORMATION

Regulatory Information

Australia:

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 Drugs and Poisons (SUSDP).

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.

2-Propanone

Hazard Category

Irritant, Highly Flammable

Australia (AICS)

Listed.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS

MSDS reviewed: December 2009

MSDS superseded: August 2005

Contact Person/Point

For specialist advice in emergencies: Australia 1800 022 037; 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 Nuplex Industries (Aust) 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
