Acetone

010-4

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Acetone
SDS Number	:	000000011300
Product Use Description	:	Solvent
Manufacturer or supplier's details	:	CHEMSUPPLY AUSTRALIA PTY LTD 38-50 Bedford St. Gillman SA 5013, Australia
For more information call	:	+61 8 8440 2000 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1-800-498-5701 or +1-303-389-1414**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
	:	**CHEMTREC in Australia: +(61)-290372994**
	:	(24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture	:	Flammable liquids, Category 2 Eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 3, narcotic effect

GHS Label elements, including precautionary statements

Symbol(s) :

Signal word	:	Danger
Hazard statements	:	Highly flammable liquid and vapour.

Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/ doctor if you feel unwell.
If eye irritation persists: Get medical advice/ attention.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Acetone NF, 2-Propanone, Diethyl Ketone, Dimethylketal,

Dimethylformaldehyde, Pyroacetic acid. Pyroacetic ether

Formula : C3H6O

Chemical nature : Substance

CAS-No. : 67-64-1

Hazardous components

Chemical name	CAS-No.	Concentration
Acetone	67-64-1	<= 100%

4. FIRST AID MEASURES

Inhalation : Remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Use oxygen as required, provided a qualified operator is present.
Call a physician.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Take off contaminated clothing and shoes immediately.
Wash contaminated clothing before re-use.
Call a physician if irritation develops or persists.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician.

Ingestion : Do not induce vomiting without medical advice.
If a person vomits when lying on his back, place him in the recovery position.
Never give anything by mouth to an unconscious person.
Call a physician.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical
Foam
Carbon dioxide (CO2)
Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	:	Highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and protective suit.
Further information	:	HAZCHEM Code: 2YE

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear personal protective equipment. Unprotected persons must be kept away. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.
Methods for cleaning up	:	Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Keep container tightly closed.
Do not smoke.
Do not swallow.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces.
Take precautionary measures against static discharges.
Ensure all equipment is electrically grounded before beginning transfer operations.
Use explosion-proof equipment.
Keep product and empty container away from heat and sources of ignition.
No sparking tools should be used.
No smoking.

Storage

Requirements for storage areas and containers : Store in area designed for storage of flammable liquids.
Protect from physical damage.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.
Store away from incompatible substances.
Container hazardous when empty.
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid : Acids, Aldehydes, Alkalis, Amines, Ammonia, Oxidizing agents, Reducing agents, Chlorine compounds

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Acetone	67-64-1	TWA : Time	500 ppm	12 2011	AU NOEL: Australia.

		Weighted Average (TWA):	1,185 mg/m3		National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended
		STEL : Short Term Exposure Limit (STEL):	1,000 ppm 2,375 mg/m3	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended

Engineering measures

Use with local exhaust ventilation.
Prevent vapour buildup by providing adequate ventilation during and after use.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
For rescue and maintenance work in storage tanks use self-contained breathing apparatus.
Use NIOSH approved respiratory protection.

Hand protection : Solvent-resistant gloves
Gloves must be inspected prior to use.
Replace when worn.

Eye protection : Do not wear contact lenses.
Wear as appropriate:
Safety glasses with side-shields
If splashes are likely to occur, wear:
Goggles or face shield, giving complete protection to eyes

Skin and body protection : Wear as appropriate:
Solvent-resistant apron
Flame retardant antistatic protective clothing.
If splashes are likely to occur, wear:
Protective suit

Hygiene measures : When using, do not eat, drink or smoke.
Wash hands and face before breaks and immediately after handling the product.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.
Do not swallow.

Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid, clear
Colour	:	colourless
Odour	:	sweet mint-like
pH	:	Note: Not applicable
Melting point/range	:	-94.8 °C
Boiling point/boiling range	:	56 °C
Flash point	:	-4 °F (-20 °C) Method: closed cup
Evaporation rate	:	Note: No data available
Lower explosion limit	:	2 %(V)
Upper explosion limit	:	13 %(V)
Vapour pressure	:	240 hPa at 20 °C(68 °F)
Vapour density	:	2.0 Note: (Air = 1.0)
Density	:	0.79 g/cm3 at 20 °C

Water solubility	:	Note: completely soluble
Partition coefficient: n-octanol/water	:	Pow: 0.58 log Pow: -0.24
Ignition temperature	:	465 °C
Decomposition temperature	:	Note: No data available
Viscosity, dynamic	:	Note: No data available
Viscosity, kinematic	:	Note: No data available
Molecular weight	:	58.08 g/mol

10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerisation does not occur.
Conditions to avoid	:	Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials to avoid	:	Acids Aldehydes Alkalis Amines Ammonia Oxidizing agents Reducing agents Chlorine compounds
Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50: 5,800 mg/kg Species: Rat
Acute inhalation toxicity	:	LC50: 32000 ppm Exposure time: 4 h Species: Rat
Acute dermal toxicity	:	LD50: > 7,426 mg/kg Species: Guinea pig
Skin irritation	:	Species: Rabbit Result: Mild skin irritation Exposure time: 24 h
Eye irritation	:	Species: Rabbit Result: Irritation to eyes, reversing within 7 days
Repeated dose toxicity	:	Species: Rat NOEL: 19000 ppm Note: 8-Week Inhalation Toxicity Study 5 days/week for 8 weeks Slightly reduced weight gain compared to controls
	:	Species: Rat NOEL: 100 mg/kg/d Note: 90-Day Oral Toxicity Study increased liver and kidney weights
	:	Species: Rat Lowest observed effect level: 500 mg/kg/d Note: 90-Day Oral Toxicity Study increased liver and kidney weights
Genotoxicity in vitro	:	Result: negative Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
	:	Result: negative Method: Chromosome aberration test in vitro

: Result: negative
Method: Point mutation
Note: Mouse lymphoma cells

: Result: negative
Method: DNA cell-binding Assay

12. Ecological information

Toxicity

Toxicity to fish	:	LC50: 5,540 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
	:	LC50: 8,300 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish)
Toxicity to daphnia and other aquatic invertebrates	:	LC50: 10 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea)
Toxicity to algae	:	EC50: 3,020 mg/l Exposure time: 14 d Species: Chlorella pyrenoidosa (aglae)
Toxicity to bacteria	:	LC50: > 1,000 mg/l Species: Bacteria

Persistence and degradability

Biodegradability	:	anaerobic Result: Readily biodegradable Value: 78 % Method: OECD 301 D

13. DISPOSAL CONSIDERATIONS

Product	:	In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No.	:	UN 1090
Description of the goods	:	ACETONE
Class	:	3
Packing group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3

ADG_ROAD

UN/ID No.	:	UN 1090
Description of the goods	:	ACETONE
Class	:	3
Packing group	:	II
Hazard Identification Number	:	33
Labels	:	3

IATA

UN/ID No.	:	UN 1090
Description of the goods	:	Acetone
Class	:	3
Packing group	:	II
Labels	:	3
Packing instruction (cargo aircraft)	:	364
Packing instruction (passenger aircraft)	:	353
Packing instruction (passenger aircraft)	:	Y341

IMDG

UN/ID No.	:	UN 1090
Description of the goods	:	ACETONE
Class	:	3
Packing group	:	II
Labels	:	3
EmS Number 1	:	F-E

EmS Number 2 : S-D

Marine pollutant : no

HAZCHEM Code: 2YE

15. REGULATORY INFORMATION

National regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 5

Other international regulations

Notification status

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of : On the inventory, or in compliance with the inventory

Chemicals (NZIoC), as published by ERMA New Zealand

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by:
Honeywell Performance Materials and Technologies Product Stewardship Group

End of Safety Data Sheet