

Acetone

Material Safety Data Sheet



Chemtools

Unit 4, 3 Pullman Place
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ChemTools Acetone
Part Numbers: CT-ACT-1L, -5L, -20L, -200L
Product Type: Solvent for industrial use.
Company Address: ChemTools Pty. Ltd., PO Box 4319, Penrith, NSW 2750
Ph: 02 4635 3746
EMERGENCY PHONE: Australia: Poisons Information Centre 13 1126
International: Infotrac (708) 918 1900

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS #	%	HSIS TWA	HSIS STEL
acetone	67-64-1	100	500ppm (1185mg/m ³)	1000ppm (2,375mg/m ³)

3. HAZARDS IDENTIFICATION

Hazard Classification: Hazardous Substance, Dangerous Goods.
Risk Phrases: R11 – Highly flammable
R20/22 - Harmful by inhalation and if swallowed.
R36/38 – Irritating to eyes and skin.
R67 – Vapours may cause drowsiness and dizziness.
Safety Phrases: S2 – Keep out of reach of children
S7/9 – Keep container tightly closed and in a well ventilated place
S21 – When using do not smoke
S23 – Do not breathe vapour.
S51 – Use only in well ventilated areas.
S24/25 – Avoid contact with skin and eyes.
Relevant routes of exposure: Skin, Inhalation, Eyes
Potential Health Effects
Inhalation: May cause respiratory tract irritation. High concentrations of vapours may cause headache, fatigue, drowsiness and dizziness.
Skin contact: May cause allergic skin reaction. May cause skin irritation. Product has a defatting effect on skin. Prolonged contact may cause dryness of skin.
Eye contact: Contact with eyes will cause irritation.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse.
Eye contact: Get medical attention if symptoms occur.
Check for and remove any contact lenses. Immediately flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Loosen any tight clothing. Keep individual calm. Obtain medical attention. If there are signs of intoxication (drunkenness) then serious health effects may follow (depending on the amount swallowed or inhaled). Treat unconsciousness by placing the person in the coma position. Apply artificial respiration if breathing stops. Immediate medical attention should be sought and the affected person transferred and accompanied to the care of a doctor or hospital.

5. FIRE-FIGHTING MEASURES

Flash point: -18°C (Abel)
Autoignition temperature: 465°C (ASTM D-2155)
Flammable/Explosive limits-lower %: 2.6%
Flammable/Explosive limits-upper %: 13%
Extinguishing media: Alcohol resistant foam, dry chemical or carbon dioxide.
Special fire fighting procedures: Use water to cool exposed containers. Heating can cause expansion or decomposition leading to violent ruptures of containers. If safe to do so, remove containers from path of fire. Spills and leaks may be washed away with copious volumes of water, fog, or spray. For major fires or where the atmosphere is oxygen deficient or contains unacceptable levels of combustion products, fire-fighters must wear self contained breathing apparatus with full face mask and protective clothing.
Unusual fire or explosion hazards: None
Hazardous combustion products: Oxides of carbon. Keep run-off water out of sewers and water sources.
Hazchem Code: 2[Y]E

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6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Extinguish all ignition sources. Ventilate well. Use approved respirator if air contamination is above accepted level. Prevent product from entering drains or open waters.
Clean-up methods: Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapour and mist. Wash thoroughly after handling.
Storage: For safe storage, store at or below 38°C (100°F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products: Refer to Section 10.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits.
Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. butyl rubber gloves. Natural rubber gloves.
Eye/face protection: Safety goggles or safety glasses with side shields. Eye wash facilities should be provided in all areas where the product is handled.
See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.
Colour: Clear, colourless.
Odour: Organic solvents.
pH: Not available
Boiling point/range: 56.2°C.
Melting point/range: -94°C
Specific gravity: 0.791 at 20°C.
Vapour density: 2 at 20°C (air=1)
Evaporation rate: 7.0 (ASTM D-3539, nBuAc=1)
Solubility in water: Miscible.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Hazardous polymerization: Will not occur.
Hazardous decomposition products: Oxides of carbon.
Incompatibility: Strong oxidizers. Strong acids.
Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

11. TOXICOLOGICAL INFORMATION

Product toxicity data:

acetone Oral: LD₅₀ >5,800 mg/Kg (rat). Skin: LD₅₀ >20,000mg/Kg (rabbit) Inhalation
LC₅₀:50mg/m³/8hr (rat)

12. ECOLOGICAL INFORMATION

Acute Toxicity Fish: (acute): Blugil Sunfish: LC₅₀ 8,300ppm/96hr
Daphnia Magna: LC₅₀ 10ppm/48hr
Mobility: Dissolves in water
If product enters soil, it will be highly mobile and may contaminate groundwater
Persistence/degradability: Biodegradable and volatile.
Bioaccumulation : Not expected to bioaccumulate significantly.

13. DISPOSAL CONSIDERATIONS

Recommended method of disposal: Recover or recycle if possible. Dispose of according to Federal, State and local governmental regulations.
Container disposal: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Recycle if possible.

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14. TRANSPORT INFORMATION

ADG:
Proper shipping name: acetone
UN No.: 1090
Class: 3
Hazchem code: 2[Y]E
Packing group: II

IMDG:
Proper shipping name: acetone
Identification No.: UN 1090
Class: 3
Packing group: II
Marine pollutant: No

IATA (country variations may occur):
Proper shipping name: acetone
Identification No.: UN 1090
Class: 3
Packing group: II

15. REGULATORY INFORMATION

Poisons Schedule (SUSDP): Schedule 5 Poison

16. OTHER INFORMATION

Abbreviations/Acronyms:

- ADG – Australian Dangerous Goods.
- AICS – Australian Inventory of Chemical Substances.
- HSIS - Hazardous Substances Information System.
- IARC – International Agency for Research on Cancer.
- NIOSH – National Institute of Occupational Health and Safety.
- NOS – Not Otherwise Specified.
- PEL – Permissible Exposure Limit.
- STEL – Short Term Exposure Limit.
- SWA – SafeWork Australia, formally ASCC and NOHSC.
- SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons.
- TLV – Threshold Limit Value.
- TWA – Time Weighted Average.

Date of MSDS: August 2010

DISCLAIMER:

The information contained within this MSDS applies only to the ChemTools product to which the sheet relates. The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purpose other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.

End of MSDS