

### **Safety Data Sheet**

#### 1. Identification of the substance/preparation and of the company/undertaking

#### 1.1 Identification of the product Product number: A1084

Name of material: Acetone CAS No.: 67-64-1

#### 1.2 Recommended use and restriction on use

General use : for experimental, research and industrial use

Restriction on use : Never drink, Not used except for experimental, research and industrial applications.

#### 1.3 Manufacturer / Supplier / Distributor information

#### Importer/distributors identification

Company : ASIA CHEMIE (THAILAND) CO., LTD.

Address : 44/27 Moo.4 T.Huaykapi A.Muangchonburi, Chonburi, Thailand. 20130

Telephone number : +66 3838 7988 Fax number : +66 3838 7989

E-mail : asiachemie@gmail.com, natchakot@asiachemie.com, natchakot@gmail.com

#### 2. Hazards identification

#### 2.1 GHS Classification

Flammable liquids: Category2

Serious eye damage/irritation: Category2A

Specific target organ toxicity (Single exposure): Category3 (Narcotic effects)

Aspiration hazard: Category2

#### 2.2 GHS label elements Hazard symbols







# **Signal words :** Danger **Hazard statements**

H225 Highly flammable liquid and vapour

H305 May be harmful if swallowed and enters airways

H319 Causes serious eye irritation

H336 May cause drowsiness and dizziness.

#### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools. Flammable liquids (chapter 2.6) 1, 2, 3

P243 Take precautionary measures against static discharge.

P261 Avoid breathing gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P331 Do NOT induce vomiting.

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

P370+P378 In case of fire: Use Suitable extinguishing media for extinction (Refer Section MSDS 5).

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

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P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

#### 2.3 Other hazards which do not result in classification: (NFPA Classification)

NFPA grade (0 ~ 4 level)

- Health: 1, Flammability: 3, Reactivity: 0

#### 3. Composition/information on ingredients

Chemical Name	Synonyms	CAS No.	Concentration (%)
Acetone	-	67-64-1	100

#### 4. First aid measures

#### 4.1 Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- Get medical attention immediately.
- Go to the hospital immediately if symptoms (flare, irritate) occur.
- Remove contact lenses if worn.

#### 4.2 Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Get medical attention immediately.

#### 4.3 Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.
- Get medical attention immediately.

#### 4.4 Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.
- Get medical attention immediately.
- If swallowed, large amounts of water to drink and do not induce vomiting.

#### 4.5 Delayed and immediate effects and also chronic effects from short and long term exposure

- Not available

#### 4.6 Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

#### 5. Fire-fighting measures

#### 5.1 Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

#### 5.2 Specific hazards arising from the chemical

- Not available

#### **5.3** Special protective actions for firefighters

- Move containers from fire area, if you can do without the risk.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Wear appropriate protective equipment.
- Keep containers cool with water spray.
- Vapor or gas is burned at distant ignition sources can be spread quickly.
- Due to the extremely low flash point, irrigating fire extinguishing may be less effective when put out a fire.

#### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Ventilate closed spaces before entering.
- Move container to safe area from the leak area.
- Remove all sources of ignition.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment

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- Do not direct water at spill or source of leak.
- Avoid skin contact and inhalation.

#### **6.2 Environmental precautions**

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

#### 6.3 Methods and materials for containment and cleaning up

- Large spill: Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.
- Small leak: sand or other non-combustible material, please let use absorption.
- Wipe off the solvent.
- Dike for later disposal.
- Do not use plastic containers.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Avoid contact with incompatible materials.
- Get the manual before use.
- Do not handle until all safety precautions have been read and understood.
- Do not inhale the steam prolonged or repeated.
- Avoid contact with heat, sparks, flame or other ignition sources.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Save in cool, dry and well ventilated place.
- Do not apply any physical shock to container.
- Avoid direct sunlight.
- Keep sealed when not in use.
- No open fire.
- Collected them in sealed containers.

#### 8. Exposure controls/personal protection

#### 8.1 Exposure limits

#### **ACGIH TLV**

- [Acetone]: TWA, 500 ppm(1188 mg/m3) STEL, 750 ppm (1782 mg/m3)

#### **OSHA PEL**

- [Acetone]: 1000ppm 2400mg/m3

#### 8.2 Engineering controls

Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

## 8.3 Individual protection measures, such as personal protective equipment

#### **Respiratory protection**

- Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
- Respiratory protection is ranked in order from minimum to maximum.
- Consider warning properties before use.
- Any chemical cartridge respirator with organic vapor cartridge(s).
- Any chemical cartridge respirator with a full facepiece and organic vaporcartridge(s).
- Any air-purifying respirator with a full facepiece and an organic vapor canister.
- For Unknown Concentration or Immediately Dangerous to Life or Health: Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

#### Eye protection

- Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- Provide an emergency eye wash station and quick drench shower in the immediate work area.

#### **Hand protection**

- Wear appropriate chemical resistant glove.

#### **Skin protection**

- Wear appropriate chemical resistant protective clothing.

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#### Others

- Not available

#### 9. Physical and chemical properties

A. Appearance		
- Appearance	Liquid	
- Color	clear	
B. Odor	sweet odor	
C. Odor threshold	24-1615 mg/m <sup>3</sup>	
D. рH	Not available	
E. Melting point/Freezing point	-94.6 ℃	
F. Initial Boiling Point/Boiling Ranges	56.1 °C	
G. Flash point	-17 °C	
H. Evaporation rate	Not available	
. Flammability (solid, gas)	Not available	
J. Upper/Lower Flammability or explosive limits	13 / 2.2 %	
K. Vapour pressure	24 kPa (20°C)	
L. Solubility	miscible withe water, with alcohol	
M. Vapour density	2	
N. Specific gravity (Relative density)	0.79	
O. Partition coefficient of n-octanol/water	-0.24	
P. Autoignition temperature	465 ℃	
Q. Decomposition temperature	Not available	
R. Viscosity	0.303 cP (25°C 2))	
S. Molecular weight	58.08	

#### 10. Stability and reactivity

#### **10.1 Chemical Stability**

- This material is stable under recommended storage and handling conditions.

#### 10.2 Possibility of hazardous reactions

- Cylinders exposed to fire may vent and release flammable gas.

#### 10.3 Conditions to avoid

- Avoid contact with incompatible materials and condition.
- Avoid: Accumulation of electrostatic charges, Heating, Flames and hot surfaces
- Avoid contact with heat, sparks, flame or other ignition sources.

#### 10.4 Incompatible materials

- Not available

#### 10.5 Hazardous decomposition products

- May emit flammable vapour if involved in fire.

#### 11. Toxicological information

# 11.1 Information on the likely routes of exposure Respiratory tracts

- May be harmful if swallowed and enters airways

#### Oral

- Not available

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#### Eye · Skin

- Causes serious eye irritation

# 11.2 Delayed and immediate effects and also chronic effects from short and long term exposure Acute toxicity

#### \* Oral

- [Acetone]: LD50 = 5280 mg/kg Rat (EHC (1990), SIDS (1997))

#### \* Dermal

- [Acetone]: LD50 = 12870 mg/kg rabbit (EHC (1990), PATTY (1994), SIDS (1997))

#### \* Inhalation

- [Acetone]: LC50 = 76 mg/L/4hr Rat (SIDS)

#### Skin corrosion/irritation

- Not available

#### Serious eye damage/irritation

- Causes serious eye irritation

#### Respiratory sensitization

- Not available

#### Skin sensitization

- Not available

#### Carcinogenicity

- \* IARC
- Not available
- \* OSHA
  - Not available
- \* ACGIH
- [Acetone]: A4
- \* NTP
  - Not available
- \* EU CLP
- Not available

#### Germ cell mutagenicity

- Not available

#### Reproductive toxicity

- Not available

#### STOT-single exposure

- May cause drowsiness and dizziness.

#### STOT-repeated exposure

- Not available

#### **Aspiration hazard**

- May be harmful if swallowed and enters airways

#### 12. Ecological information

#### 12.1 Ecotoxicity

#### Fish

- [Acetone]: LC50 >100 mg/l 96 hr Fathead minnows (NITE: EHC207, 1998)

#### Crustaceans

- [Acetone]: LC50 8800 mg/l 48 hr Daphnia pulex (ECHA)

#### Algae

- Not available

#### 12.2 Persistence and degradability

#### Persistence

- [Acetone]: -0.24 log Kow (ECHA)

#### **Degradability**

- [Acetone]: 1.85 g O2/g (APHA Standard methods No.219 1971), 1.92 mg O2/g (APHA Standard methods No.219 1971)

#### 12.3 Bioaccumulative potential

#### **Bioaccumulative potential**

- Not available

#### Biodegration

- [Acetone]: 62% 5 day (OECD TG 301B)(ECHA)

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#### 12.4 Mobility in soil

- Not available

#### 12.5 Other adverse effects

- Not available

#### 13. Disposal considerations

#### 13.1 Disposal methods

- Since more than two kinds of designated waste is mixed, it is difficult to treat separately, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.

#### 13.2 Special precautions for disposal

- The user of this product must dispose by oneself or entrust it to a waste disposer, a person who recycles other's waste or establishes and operates waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

#### 14. Transport information

#### 14.1 UN No. (IMDG CODE/IATA DGR)

- 1090

#### 14.2 Proper shipping name

- ACETONE

#### 14.3 Hazard Class

- 3

#### 14.4 IMDG CODE/IATA DGR Packing group

- 11

#### 14.5 Marine pollutant

- Not applicable

#### 14.6 Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE : F-E (Non-water-reactive flammable liquids)
- EmS SPILLAGE SCHEDULE : S-D (Flammable liquids)

#### 15. Regulatory information

#### 15.1 National and/or international regulatory information

#### **POPs Management Law**

- Not applicable

#### **Information of EU Classification**

- \* Classification
  - [Acetone]: H225, H319, H336,

#### U.S. Federal regulations

- \* OSHA PROCESS SAFETY (29CFR1910.119)
- Not applicable
- \* CERCLA Section 103 (40CFR302.4)
- [Acetone]: 2267.995 kg 5000 lb
- \* EPCRA Section 302 (40CFR355.30)
  - Not applicable
- \* EPCRA Section 304 (40CFR355.40)
  - Not applicable
- \* EPCRA Section 313 (40CFR372.65)
- Not applicable

#### **Rotterdam Convention listed ingredients**

- Not applicable

#### **Stockholm Convention listed ingredients**

- Not applicable

#### **Montreal Protocol listed ingredients**

- Not applicable

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# Safety Data Sheet

16. Other information

Reason for the revision: General update.

Date: 17/04/2014

**Revision #3** Date: 11/02/2020

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