

## SAFETY DATA SHEET



Date Issued : 12/26/2000

MSDS No : 217100

Date-Revised : 12/15/2017

Revision No : 14

## Acetone

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Acetone  
**PRODUCT DESCRIPTION:** Acetone  
**PRODUCT CODE:** 217100  
**PRODUCT FORMULATION NAME:** Acetone  
**CHEMICAL FAMILY:** Ketone  
**MOLECULAR FORMULA:** C<sub>3</sub>H<sub>6</sub>O  
**GENERIC NAME:** Dimethyl ketone, 2-Propanone, Dimethylformaldehyde

**MANUFACTURER**

Americhem Sales Company LLC  
 340 North Street  
 Mason, MI 48854  
**Emergency Contact:** CHEMTREC or CANUTEC  
**Product Stewardship:** 517-676-9363  
**Transportation:** 517-676-9363

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**CHEMTREC (U.S.): (800) 424-9300**  
**CANUTEC (613) 996-6666**

**COMMENTS:** To the best of our knowledge, this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act.

## 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Target Organ Toxicity (Single exposure), Category 3  
 Skin Sensitization, Category 3  
 Aspiration Hazard, Category 2  
 Serious eye damage/irritation, Category 2A

**Physical:**

Flammable Liquids, Category 2

**GHS LABEL**

Flame

Exclamation  
markHealth  
hazard**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H225: Highly flammable liquid and vapour.  
 H316: Causes mild skin irritation.  
 H319: Causes serious eye irritation.  
 H336: May cause drowsiness or dizziness.  
 H305: May be harmful if swallowed and enters airways.

**Precautionary statement(s)****Prevention:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P240: Ground and bond container and receiving equipment.  
 P233: Keep container tightly closed.  
 P243: Take action to prevent static discharges.  
 P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
 P242: Use non-sparking tools.  
 P271: Use only outdoors or in a well-ventilated area.  
 P264: Wash ... thoroughly after handling.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P331: Do NOT induce vomiting.  
 P312: Call a POISON CENTER/doctor/...if you feel unwell.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P370+P378: In case of fire: Use ... to extinguish.

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235: Store in a well-ventilated place. Keep cool.  
 P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container in accordance with local regulations.

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** DANGER! Extremely Flammable Liquid & Vapor - vapor may cause flash fire. Harmful if inhaled, High vapor concentrations may cause dizziness. Causes skin and eye irritation. Harmful if swallowed.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Severe irritation and discomfort. Reversible and/or irreversible corneal damage may occur.

**SKIN:** Moderate irritation and discomfort possible. Defatting of skin, redness and chemical dermatitis possible. Toxic systemic effects from absorption are possible.

**INGESTION:** Gastrointestinal tract irritation. Can be fatal if ingested.

**INHALATION:** Dizziness, impaired coordination, headaches and loss of consciousness. Severe respiratory tract irritation. Toxic systemic effects are possible.

**MEDICAL CONDITIONS AGGRAVATED:** None known

**ROUTES OF ENTRY:** Absorption, Inhalation, Ingestion

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| Chemical Name | Wt.% | CAS     |
|---------------|------|---------|
| Acetone       | 100  | 67-64-1 |

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention.

**SKIN:** Remove contaminated clothing, wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek

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medical attention.

**INGESTION:** Do not Induce Vomiting. Get immediate medical attention.

**INHALATION:** Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get immediate medical attention.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Treat as an OSHA Class IB Flammable liquid

**EXTINGUISHING MEDIA:** Foam, Dry Chemical, Carbon Dioxide, Water Fog

**EXPLOSION HAZARDS:** Vapor accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, ect., away from these fumes.

**FIRE FIGHTING PROCEDURES:** Treat as highly flammable/explosive vapor solvent. Vapor is heavier than air and may travel to ignition sources and flashback. Keep unignited containers cool with water. Contaminated fire control waters should be diked or collected in ponds if possible and disposed of properly. Use eye and skin protections and self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Extinguish all ignition sources and ventilate area. Evacuate all non-essential personnel. Blanket spill with alcohol resistant foam to limit evaporation. Dike area to contain spill and clean up by absorbing on inert absorbent or by other means. Liquid may be flammable even when mixed with water unless heavily diluted (>5:1). Do not flush into sewers or natural waterways.

**LARGE SPILL:** Contain material as described above and call the local fire or police department for immediate emergency assistance.

### 7. HANDLING AND STORAGE

**HANDLING:** Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapors can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes.

**STORAGE:** Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

**STORAGE TEMPERATURE:** Ambient

**LOADING TEMPERATURE:** AMBIENT

**SHELF LIFE:** THE SHELF LIFE OF THIS PRODUCT IS UNDETERMINED, BUT MAY BECOME SUSPECT ONE YEAR FROM THE DATE OF PURCHASE.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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## EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) |              |      |                         |                                       |
|---|--------------|------|-------------------------|---------------------------------------|
| EXPOSURE LIMITS                             |              |      |                         |                                       |
| Chemical Name                               | Type         |      | ppm                     | mg/m <sup>3</sup>                     |
| Acetone                                     | OSHA PEL     | TWA  | 1000 ppm <sup>[1]</sup> | 2400 mg/m <sup>3</sup> <sup>[1]</sup> |
|   |              | STEL | ppm                     | mg/m <sup>3</sup>                     |
|   | ACGIH TLV    | TWA  | 500 ppm                 | mg/m <sup>3</sup>                     |
|   |              | STEL | 750 ppm                 | mg/m <sup>3</sup>                     |
|   | Supplier OEL | TWA  | NL ppm                  | NL mg/m <sup>3</sup>                  |
|   |              | STEL | NL ppm                  | NL mg/m <sup>3</sup>                  |

**OSHA TABLE COMMENTS:**  
1. NL = Not Listed

**ENGINEERING CONTROLS:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure guidelines, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

## PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields or goggles when handling this material.

**SKIN:** To prevent any contact, wear impervious protective clothing such as nitrile or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

**RESPIRATORY:** Use NIOSH/MSHA approved respirators when vapors or mist concentrations exceed permissible exposure limits.

**PROTECTIVE CLOTHING:** Chemical resistant boots, apron, etc. as necessary to prevent contamination of clothing and skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Chemical Name | Flash Point (°C) | Boiling Point (°C) | Solubility in Water | Specific Gravity |
|---------------|------------------|--------------------|---------------------|------------------|
| Acetone       | -18              | 56.111             | complete            | 0.792            |

**PHYSICAL STATE:** Liquid

**ODOR:** Sweet, Pungent odor

**APPEARANCE:** Clear

**COLOR:** Colorless

**pH:** Neutral

**PERCENT VOLATILE:** 100

**FLASHPOINT AND METHOD:** ~ (-1°F)

**FLAMMABLE LIMITS:** 2.6 to 12.8

**AUTOIGNITION TEMPERATURE:** (869°F)

**VAPOR PRESSURE:** 181 mmHg at 20°C

**VAPOR DENSITY:** 2 (Air=1)

**BOILING POINT:** (133°F)

**MELTING POINT:** (-138°F)

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**SOLUBILITY IN WATER:** Complete**EVAPORATION RATE:** 14.5 (n-Butyl Acetate=1)**SPECIFIC GRAVITY:** 0.79 (water=1) at 20°C**MOLECULAR WEIGHT:** 58.08 g/Mole**10. STABILITY AND REACTIVITY****REACTIVITY:** No**HAZARDOUS POLYMERIZATION:** Will not occur**STABILITY:** Stable**CONDITIONS TO AVOID:** Exposure to excessive heat, open flames and sparks. Avoid conditions that favor the formation of excessive mists and/or fumes.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Monoxide from incomplete combustion, complete combustion produces Carbon Dioxide and Water.**INCOMPATIBLE MATERIALS:** Strong oxidizing agents.**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

| Chemical Name | ORAL LD <sub>50</sub> (rat) | DERMAL LD <sub>50</sub> (rabbit) |
|---------------|-----------------------------|----------------------------------|
| Acetone       | 9750 mg/kg (RAT)            | 20000 mg/kg(RABBIT)              |

**ORAL LD<sub>50</sub>:** 5.8 g/kg (rat)**CARCINOGENICITY****IARC:** Not listed by IARC**NTP:** Not listed by NTP.**OSHA:** Not listed by OSHA**GENERAL COMMENTS:** Ingestion of large quantities of Acetone may cause matabolic changes, drowsiness, coma, and liver and kidney injury.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** BOD= (Lb./Lb.): Acclimated Bacteria: 0.31 - 1.63 COD=(Lb./Lb.): 1.12 - 2.07**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** Conditions of use may cause this material to become a hazardous waste as defined by state or federal law. Use approved treatment, transporters and disposal sites.**EMPTY CONTAINER:** Keep containers closed when not in use. Do not reuse empty containers.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Acetone**PRIMARY HAZARD CLASS/DIVISION:** 3**UN/NA NUMBER:** UN1090

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PACKING GROUP: II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 5000

LABEL: Class 3, Flammable Liquid

## 15. REGULATORY INFORMATION

## UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: Not Listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

| Chemical Name | Wt.% | CERCLA RQ  |
|---------------|------|------------|
| Acetone       | 100  | 5,000 lbs. |

CERCLA RQ: 5000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name | CAS     |
|---------------|---------|
| Acetone       | 67-64-1 |

TSCA REGULATORY: This material or its components are listed in the TSCA inventory.

## 16. OTHER INFORMATION

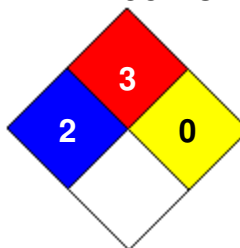
Date-Revised: 12/15/2017

REVISION SUMMARY: This MSDS replaces the 03/30/2015 MSDS.

## HMIS RATING

|                     |   |   |
|---------------------|---|---|
| HEALTH              | - | 2 |
| FLAMMABILITY        |   | 3 |
| PHYSICAL HAZARD     |   | 0 |
| PERSONAL PROTECTION | X |   |

## NFPA CODES



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