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**FOR CHEMICAL EMERGENCY  
 CALL (800) 424-9300 24 HRS.**

## SECTION 1 - MATERIAL INFORMATION

**PRODUCT:** PART #9 ACETONE

**PRODUCT USE:** Chemical Intermediate

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT | CASE NO. | Amount (Vol%) |
|-----------|----------|---------------|
| ACETONE   | 67-64-1  | 100.0         |

Exposure Guidelines (See Section 15 for additional exposure limits)

|                       | CAS NO. | GOVERNING BODY | EXPOSURE LIMITS |      |     |
|-----------------------|---------|----------------|-----------------|------|-----|
| Limit for the product | 67-64-1 | ACGIH          | STEL            | 750  | ppm |
| Limit for the product | 67-64-1 | ACGIH          | TWA             | 500  | ppm |
| Limit for the product | 67-64-1 | OSHA           | TWA             | 1000 | ppm |

## SECTION 3 - HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW**

Danger! Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Harmful if inhaled. High vapor concentrations may cause drowsiness. Causes skin and eye irritation. Harmful if swallowed. May cause target organ or system damage to the following: Eye, Skin; Respiratory system; Central nervous system.

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

|      |                      |                    |                          |                   |
|------|----------------------|--------------------|--------------------------|-------------------|
|      | <b><u>Health</u></b> | <b><u>Fire</u></b> | <b><u>Reactivity</u></b> | <b><u>PPI</u></b> |
| HFPA | 1                    | 3                  | 0                        |                   |



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## SECTION 5 - FIRE FIGHTING MEASURES

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**EXTINGUISHING MEDIA:** Water spray; alcohol resistant foam; dry chemical; carbon dioxide.

**FIRE FIGHTING INSTRUCTIONS:** Use water spray. Use water spray to cool fire exposed tanks and containers. Acetone/water solutions that contain more than 2.5% acetone have flash points. When the acetone concentration is greater than 8% (by weight) in a closed container, it would be within the flammable range and cause fire or explosion if a source of ignition were introduced.

### FLAMMABLE PROPERTIES

|                          | Typical | Min. | Max. | Text Result | Units | Method |
|--------------------------|---------|------|------|-------------|-------|--------|
| Flash Point              | 1.4     |      |      |             | F     | N/A    |
| Autoignition Temperature | 869     |      |      |             | F     | N/A    |
| Lower Explosion Limit    | 2.5     |      |      |             | %     | N/A    |
| Upper Explosion Limit    | 12.8    |      |      |             | %     | N/A    |

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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Prevent ignition, stop leak and ventilate the area. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. After removal, flush contaminated area thoroughly with water.

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## SECTION 7 - HANDLING AND STORAGE

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**HANDLING:** Use only a well-ventilated area. Ground and bond containers when transferring material. Avoid breathing (dust, vapor, mist, gas). Avoid contact with this material. Wash thoroughly after handling. Do not use air pressure to unload containers.

**STORAGE:** Keep away from heat, sparks, and flame. Store in a cool dry place. Keep container closed when not in use.

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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Consult with a Health and Safety Professional for Specific Selections.

**ENGINEERING CONTROLS:** Use with adequate ventilation. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Use explosion-proof ventilation equipment.

### **PERSONAL PROTECTION**

**EYE PROTECTION:** Splash proof chemical goggles or full face shield recommended to protect against splash of product.

**GLOVES OR HAND PROTECTION:** The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Protective gloves are recommended to protect against contact with product. Neoprene: Natural rubber.

**RESPIRATORY PROTECTION:** Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**OTHER:** The following materials are acceptable for use as protective clothing; Neoprene: Natural rubber: Facilities storing or utilizing this material should be equipped with any eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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| PHYSICAL PROPERTY | TYPICAL | UNITS  | TEXT RESULTS     | REFERENCE |
|-------------------|---------|--------|------------------|-----------|
| Appearance        |         | N/A    | Colorless liquid |           |
| Boiling Point     | 133     | F      |                  |           |
| Bulk Density      |         | Lb/gal | No data          |           |
| Melting Point     | -137.2  | F      |                  |           |
| Molecular Weight  | 58.08   | g/mole |                  |           |

| PHYSICAL PROPERTY         | TYPICAL | UNITS | TEXT RESULTS  | REFERENCE |
|---------------------------|---------|-------|---------------|-----------|
| Octanol/Water Coefficient |         | N/A   | No Data       |           |
| pH                        | 7       | N/A   |               |           |
| Specific Gravity          | 0.79    | N/A   |               |           |
| Solubility In Water       |         | Wt%   | Complete      |           |
| Odor                      |         | N/A   | Sweet pungent |           |
| Odor Threshold            | 62      | Ppm   |               |           |
| Vapor Pressure            | 181     | mmHg  | @ 20C         |           |
| Viscosity (F)             |         | SUS   | No data       |           |
| Viscosity (C)             |         | CsT   | No data       |           |
| % Volatile                | 100     | Wt%   |               |           |

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## SECTION 10 - STABILITY AND REACTIVITY

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**STABILITY:** Stable

**CONDITIONS TO AVOID:** Avoid heat, sparks and open flame.

**INCOMPATIBILITY:** Acetone may form explosive mixtures with chromic anhydride, chromyl alcohol, hexachloromelamine, hydrogen peroxide, permonosulfuric acid, potassium tertbutoxide, and thioglyco. Strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.

**HAZARDOUS POLYMERIZATION:** Will not polymerize.

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## SECTION 11 - ECOLOGICAL INFORMATION

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This product is not expected to persist in the environment.

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## SECTION 12 - DISPOSAL CONSIDERATION

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Follow federal, state and local regulations. In Canada, follow federal, provincial and local regulations. This material is a RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

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## SECTION 13 - TRANSPORT INFORMATION

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|                              |                    |                                    |
|------------------------------|--------------------|------------------------------------|
| <b><u>Governing Body</u></b> | <b><u>Mode</u></b> | <b><u>Proper Shipping Name</u></b> |
| DOT                          | Ground             | Acetone                            |

|                              |                    |                            |                         |                     |
|------------------------------|--------------------|----------------------------|-------------------------|---------------------|
| <b><u>Governing Body</u></b> | <b><u>Mode</u></b> | <b><u>Hazard Class</u></b> | <b><u>UN/NA No.</u></b> | <b><u>Label</u></b> |
| DOT                          | Ground             | 3 (Flammable<br>Liquid)    | UN1090                  |                     |

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## SECTION 14 - REGULATORY INFORMATION

| <b>REGULATORY LIST</b>                             | <b>COMPONENT</b> | <b>CAS NO.</b> |
|--|------------------|----------------|
| ACGIH – Occupational Exposure Limits - Carcinogens | ACETONE          | 67-64-1        |
| ACGIH – Occupational Exposure Limits - TWAs        | ACETONE          | 67-64-1        |
| ACGIH – Occupational Exposure Limits               | ACETONE          | 67-64-1        |
| CAA (Clean Air Act) – HON Rule – SOCM Chemicals    | ACETONE          | 67-64-1        |
| Canada – WHMIS: Ingredient Disclosure              | ACETONE          | 67-64-1        |
| CERCLA/SARA – Haz Substances and their RQs         | ACETONE          | 67-64-1        |
| Inventory – Australia (AICS)                       | ACETONE          | 67-64-1        |
| Inventory – Canada – Domestic Substances List      | ACETONE          | 67-64-1        |
| Inventory - China                                  | ACETONE          | 67-64-1        |
| Inventory – European EINECS Inventory              | ACETONE          | 67-64-1        |
| Inventory – Japan – (ENCS)                         | ACETONE          | 67-64-1        |
| Inventory – Korea – Existing and Evaluated         | ACETONE          | 67-64-1        |
| Inventory – Philippines Inventory (PICCS)          | ACETONE          | 67-64-1        |
| Inventory – TSCA – Sect. 8(b) Inventory            | ACETONE          | 67-64-1        |
| Massachusetts - Right To Know List                 | ACETONE          | 67-64-1        |
| New Jersey – Department of Health RTK List         | ACETONE          | 67-64-1        |
| New Jersey – Special Hazardous Substances          | ACETONE          | 67-64-1        |
| OSHA – Final PELs – Time Weighted Averages         | ACETONE          | 67-64-1        |
| Pennsylvania Right to Know List                    | ACETONE          | 67-64-1        |
| TSCA – Sect. 12(b) – Export Notification           | ACETONE          | 67-64-1        |
| TSCA – Section 4 – Chemical Test Rules             | ACETONE          | 67-64-1        |

### **TITLE III CLASSIFICATIONS SECTIONS 311.312**

Acute: Yes

Chronic: No

Fire: Yes

Reactivity: No

Sudden Release of Pressure: No

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## SECTION 15 - OTHER INFORMATION

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If swallowed, acetone should be removed by emesis and/or gastric lavage. Mechanical assisted ventilation may be necessary. In severe cases, an initial period of hypoglycemia may require correction by intravenous solutions of dextrose. In some

cases, and initial period of hyperglycemia has occurred during the recovery phase and has lasted for a few days. Treatment with insulin may be beneficial but should be used cautiously. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner or properly disposed of. This product is subject to the Chemical Diversion and Trafficking Act of 1988 and subject to specific record keeping requirements. WHMIS Classification: Class B Division 2 – Flammable Liquids.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.