



## Safety Data Sheet ACETONE

Date of Issue: 8/2015

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: ACETONE  
NEW MSDS DATE: 05/04/2010  
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)

### SECTION 2. HAZARDS IDENTIFICATION

**DANGER!!**

#### RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.

R12 Extremely Flammable.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapors may cause drowsiness and dizziness.

#### SAFETY STATEMENTS:

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition. No smoking.

**SEE SECTION 11 FOR OTHER TOXICOLOGICAL INFORMATION (ACUTE & CHRONIC HAZARDS)**

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL CAS# EINECS# WT% TWA (OSHA) TLV (ACGIH)

Acetone 67-64-1 200-662-2 95-100 1000 ppm 500 ppm A4

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL CAS# EINECS# CEILING STEL(OSHA/ACGIH) HAP

Acetone 67-64-1 200-662-2 None Known 750 ppm No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

### SECTION 4. FIRST AID MEASURES

#### EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

#### SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.

Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

## **SECTION 4. FIRST AID MEASURES (Cont)**

### **INHALATION:**

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

### **SWALLOWING:**

Rinse mouth. GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

## **SECTION 5. FIRE FIGHTING MEASURES**

### **FIRE & EXPLOSION PREVENTIVE MEASURES:**

NO open flames, NO sparks, & NO smoking. Use a closed system, ventilation, explosion-proof electrical equipment, lighting.

Do NOT use compressed air for filling, discharging, or handling. EXTINGUISHING MEDIA. Use dry powder, carbon dioxide.

### **SPECIAL FIRE FIGHTING PROCEDURES:**

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.

Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots).

Use NIOSH approved positive-pressure self-contained breathing apparatus.

### **UNUSUAL EXPLOSION AND FIRE PROCEDURES:**

#### **EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE**

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions!

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **PERSONAL PROTECTIVE MEASURES:**

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.

Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources.

Use self-contained breathing apparatus.

### **ENVIRONMENTAL PRECAUTIONS:**

Keep from entering storm sewers and ditches which lead to waterways.

### **CONTAINMENT AND CLEAN-UP MEASURES:**

Stop spill at source. Dike and contain. Collect leaking liquid in sealable containers.

Absorb remaining liquid in sand or inert absorbent. Remove to safe place.

## **SECTION 7. HANDLING AND STORAGE**

### **HANDLING:**

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Use only with adequate ventilation. Avoid breathing of vapor or spray mist.

Avoid contact with skin & eyes.

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.

Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

## **SECTION 7. HANDLING AND STORAGE (Cont)**

Avoid free fall of liquid. Ground containers when transferring.

Do not flame cut, saw, drill, braze, or weld.

Empty container very hazardous! Continue all label precautions!

To minimize static discharge when transferring, ensure electrical continuity by bonding and grounding all equipment. Use an inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

### **STORAGE:**

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

Isolate from strong oxidants. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION RESPIRATORY EXPOSURE CONTROLS**

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

### **VENTILATION:**

LOCAL EXHAUST: Necessary MECHANICAL (GENERAL): Acceptable

SPECIAL: None OTHER: None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

### **PERSONAL PROTECTIONS:**

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

### **WORK & HYGIENIC PRACTICES:**

Provide readily accessible eye wash stations & safety showers. Wash at end of each workshift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

## **SECTION 9. PHYSICAL & CHEMICAL PROPERTIES**

APPEARANCE: Liquid, Water-White

ODOR: Ketone

ODOR THRESHOLD: Not Available

pH (Neutrality): Not Applicable

MELTING POINT/FREEZING POINT: Not Available

BOILING RANGE (IBP,50%,Dry Point): 56 56 57 C / 133 134 135 F

FLASH POINT (TEST METHOD): -16 C / 2 F (TCC)

EVAPORATION RATE (n-BUTYL ACETATE=1): 5.1

FLAMMABILITY CLASSIFICATION: Class I B

LOWER FLAMMABLE LIMIT IN AIR (% by vol): 2.6

UPPER FLAMMABLE LIMIT IN AIR (% by vol): 12.8

## **SECTION 9. PHYSICAL & CHEMICAL PROPERTIES (Cont)**

VAPOR PRESSURE (mm of Hg)@20 C 186.0

VAPOR DENSITY (air=1): 2.0

GRAVITY @ 68/68 F / 20/20 C:

SPECIFIC GRAVITY (Water=1): 0.792

POUNDS/GALLON: 6.597

WATER SOLUBILITY: Complete

PARTITION COEFFICIENT (n-Octane/Water): Not Available

AUTO IGNITION TEMPERATURE: 537 C / 1000 F

DECOMPOSITION TEMPERATURE: Not Available

REFRACTIVE INDEX: 1.358

VOC'S (>0.44 Lbs/Sq In) : 100.0 Vol% / 792.0 g/L / 6.5 Lbs/Gal

TOTAL VOC'S (TVOC): 100.0 Vol% / 792.0 g/L / 6.5 Lbs/Gal

NONEXEMPT VOC'S (CVOC): 0.0 Vol% /0.0 g/L / 0.000 Lbs/Gal

HAZARDOUS AIR POLLUTANTS (HAPS): 0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal

NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) 0.0

## **SECTION 10. STABILITY & REACTIVITY**

### **STABILITY**

Stable under normal conditions.

### **CONDITIONS TO AVOID**

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

### **MATERIALS TO AVOID**

Reacts with strong oxidants, causing fire & explosion hazard.

### **HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon Monoxide, Carbon Dioxide from burning.

### **HAZARDOUS POLYMERIZATION**

Will not occur.

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## **SECTION 11. TOXICOLOGICAL INFORMATION ACUTE HAZARDS**

### **EYE & SKIN CONTACT:**

Primary irritation to skin, defatting, dermatitis.

Primary irritation to eyes, redness, tearing, blurred vision.

Liquid can cause eye irritation. Wash thoroughly after handling.

### **INHALATION:**

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

### **SWALLOWING:**

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

### **SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED**

#### **CONDITIONS AGGRAVATED:**

Persons with severe skin, liver or kidney problems should avoid use.

### **CHRONIC HAZARDS**

#### **CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:**

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

## **SECTION 11. TOXICOLOGICAL INFORMATION ACUTE HAZARDS (Cont)**

### **MAMMALIAN TOXICITY INFORMATION**

MATERIAL CAS# EINE CS# LOWEST KNOWN LETHAL DOSE DATA

LOWEST KNOWN LD50 (ORAL)

Acetone 67-64-1 200-662-2 5340.0 mg/kg (Rabbits)

LOWEST KNOWN LC50 (VAPORS)

## **SECTION 11. TOXICOLOGICAL INFORMATION ACUTE HAZARDS (Cont)**

Acetone 67-64-1 200-662-2 2100 ppm (Cats)

LOWEST KNOWN LD50 (SKIN)

Acetone 67-64-1 200-662-2 20000.0 mg/kg (Rabbits)

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## **SECTION 12. ECOLOGICAL INFORMATION**

AQUATIC ANIMAL INFORMATION: The most sensitive known aquatic group to any component of this product is: Mosquito Fish 13000 ppm or mg/L (48 hour exposure).

MOBILITY IN SOIL: This material is a mobile liquid.

DEGRADABILITY: This product is completely biodegradable.

ACCUMULATION: This product does not accumulate or biomagnify in the environment.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

## **SECTION 14. TRANSPORT INFORMATION**

DOT SHIPPING NAME: UN1090, RQ, Acetone, 3, PG-II

DRUM LABEL: (FLAMMABLE LIQUID)

IATA / ICAO: UN1090, Acetone, 3, PG-II

IMO / IMDG: UN1090, Acetone, 3, PG-II

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 127

## **SECTION 15. REGULATORY INFORMATION**

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

### **SARA TITLE III INGREDIENTS CAS# EINECS# WT% (REG.SECTION) RQ(LBS)**

Acetone 67-64-1 200-662-2 95-100 (311,312) 5000

> 5000 LB / 2272 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF ACETONE.

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

## **SECTION 15. REGULATORY INFORMATION (Cont)**

### **STATE REGULATIONS:**

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS CALIFORNIA PROPOSITION 65: This product contains no chemicals known to the State of California to cause cancer & reproductive toxicity.

### **INTERNATIONAL REGULATIONS:**

The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, China, Europe (EINECS), Japan, Korea, United Kingdom.

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

B2: Flammable Liquid.

## **SECTION 16. OTHER INFORMATION**

### **HAZARD RATINGS:**

HEALTH (NFPA): 1, HEALTH (HMIS): 2, FLAMMABILITY: 3, REACTIVITY: 0  
(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

### **EMPLOYEE TRAINING**

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

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### **Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However some of the information presented and conclusions' drawn are derived from sources other than direct test data on the product itself and while ARCOR Epoxy Inc believes such sources to be reliable, the information is provided without warranty regarding its correctness.

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