

# MATERIAL SAFETY DATA SHEET

PRODUCT: **ACETONE**

DATE: August, 2013

SUPPLIER: Hon-Mark Hardware,  
1630 Midland Avenue  
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## I. IDENTIFICATION

SYNONYMS: DMK; Dimethyl Ketone; 2-Propanone

CHEMICAL NAME: Acetone

CHEMICAL FAMILY: Ketone

CHEMICAL FORMULA: (CH<sub>3</sub>)<sub>2</sub>CO

C.A.S. NUMBER: 67-64-1

TRANSPORT: Classification: 3.1

P.I.N.: 1090

Packing Group II

Shipping Name: Acetone

WHMIS CLASSIFICATION: D-28; B-2; Flammable liquid

## II. HAZARDOUS INGREDIENTS

1. Acetone

C.A.S. #: 67-64-1

Range % (w/w): 100

LD50-Oral: 7400 mg/kg (Rat)

LD50-Dermal: Not available

LC50: 16000 ppm/4H (Rat)

T.L.V.: 750 ppm (ACGIH 1986/87)

## III. HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE:

EYES: Severe eye irritant and may cause tissue damage if not removed promptly.

SKIN: Very low order of toxicity by skin absorption. However, frequent or prolonged contact may irritate the skin and cause defatting dermatitis.

INHALATION: The vapours have low to moderate toxicity. In high concentrations vapours are irritating and may cause headache, nausea, dizziness and anesthesia. The irritating properties give warning as anesthetic concentrations are approached.

INGESTION: Low order of toxicity but may cause headache, nausea and anesthesia.

FIRST AID:

EYES: Flush with water for at least 15 minutes and get prompt medical attention.

SKIN: Wash with soap and water. Remove contaminated clothing and wash before reuse.

INHALATION: Remove patient from contaminated area and apply artificial respiration if breathing has stopped. Call a physician.

NOTES TO PHYSICIAN: Aspirated acetone may cause severe lung damage and presents a significant hazard. Stomach contents should be evacuated quickly in a manner which avoids aspiration. Otherwise, treatment is directed at the control of the symptoms and clinical condition. No specific antidote is known.

## IV. FIRE & EXPLOSION HAZARDS

FLASH POINT & method (C): -18 (TCC)

FLAMMABLE LIMITS (% in air):

LOWER: 2.6

UPPER: 13.0

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, alcohol foam, or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Do not use water except as fog. Wear adequate respiratory and clothing protection. Use water spray to cool fire-exposed surfaces and to protect personnel. Handle as an extremely flammable liquid.

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapour forms an explosive mixture between upper and lower flammable limits.

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#### V. PHYSICAL DATA

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The following physical data are approximate only and do not represent specification values. They should only be used in the context of this Material Safety Data Sheet.

BOILING POINT (C): 56  
SPECIFIC GRAVITY (20C): 0.79  
VAPOUR PRESSURE (20C): 24 kPa  
VAPOUR DENSITY (air=1): 2  
WATER SOLUBILITY: Complete  
VOLATILITY (%): 100  
EVAPORATION RATE (Butyl acetate=1): 5.6  
APPEARANCE & ODOUR: Clear, colourless liquid with characteristic odour.

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#### VI. REACTIVITY

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STABILITY: Stable

CONDITIONS TO AVOID: Heat, sparks and sources of ignition.

INCOMPATIBILITY: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide produced on burning.

HAZARDOUS POLYMERIZATION: Will not occur..

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#### VII. SPILLS & LEAK PROCEDURES

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Wear adequate clothing and respiratory protection. Flush with water to well ventilated area. Absorb on absorbent material. Remove to a closed container. Keep material away from sewers and waterways.

WASTE DISPOSAL METHODS: Dispose of by controlled burning in an approved incinerator, or landfill absorbed material in a government approved site in accordance with federal, provincial and local regulations.

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#### VIII. SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: Approved organic canister mask or air supplied respirator.

VENTILATION: Local ventilation recommended. General mechanical ventilation (explosion proof) to maintain below TLV.

PROTECTIVE CLOTHING: Impervious rubber.

EYE PROTECTION: Goggles or face mask to protect against splashing.

ADDITIONAL PROTECTIVE EQUIPMENT: Overalls and apron.

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#### IX. ADDITIONAL INFORMATION

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HANDLING & STORAGE: This material is very volatile and highly flammable. Store in a cool ventilated area, away from oxidizing agents, heat and sources of ignition. Keep container closed. Transfer equipment should be properly grounded. Avoid prolonged or repeated contact with skin.

OTHER INFORMATION: Empty containers may retain hazardous residues and containers should be commercially cleaned before reuse.

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\*\*\*\*\* END OF REPORT \*\*\*\*\*

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