

SAFETY DATA SHEET: ACETONE

1. IDENTIFICATION

Product Name: ACETONE
Synonyms: Dimethyl Ketone, 2-Propanone
Formula and Formula Weight: CH₃COCH₃ 58.08
Integra numbers beginning with: A085.10, A085.11, A085.13, A085.14, A085.15, A085.19, A085.31, A085.50
Recommended Use: General industrial solvent
Restrictions on Use: No information available

INTEGRA Chemical Company **24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)**

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Kent WA 98032
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2. HAZARDS IDENTIFICATION

<u>OSHA Classification:</u>	<u>Hazard Category:</u>	<u>Hazard Statement:</u>
Eye Damage/Irritation	2A	Causes serious eye irritation.
Specific Target Organ Toxicity (single exposure)	3	May cause drowsiness or dizziness.
Flammable Liquids	2	Highly flammable liquid and vapor.

Signal Word: DANGER



Precautionary Statements

Prevention:

Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
Keep container tightly closed.
Ground, bond container and receiving equipment. Use only non-sparking tools.
Use explosion-proof electrical, ventilating, lighting equipment and take precautionary measures against static discharge.
Avoid breathing fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection.

Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice, attention.
Call a poison center, doctor if you feel unwell.

Storage

Store in a well ventilated place. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>Synonyms</u>	<u>CAS #</u>	<u>% Weight</u>
Acetone	Dimethyl Ketone; 2-Propanone	00067-64-1	100

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.
Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.
Skin Contact: Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention if irritation develops.
Ingestion: Aspirator hazard. If swallowed, do not induce vomiting. Rinse mouth and give victim water or milk. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional notes: Material may cause eye, skin, nose, and respiratory irritation. May cause headache, dizziness, light-headedness, weakness, incoordination, sleepiness.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:	Carbon dioxide, dry chemical or alcohol foam. Water may be ineffective.
Special Equipment and Precautions:	Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection. Use water spray to disperse vapors; reignition is possible.
Specific Hazards:	Vapors may flow along surfaces to distant ignition sources and flash back. Vapors are heavier than air and will settle in low areas. Material may float on water and re-ignite. Material can burn with little or no visible flame.
Hazardous combustion products:	Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal. Flush spill area with water.
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7. HANDLING AND STORAGE

Incompatible Materials:	Incompatible with strong acids, strong bases, strong oxidizers. Halogen acids and halogen compounds, amines, ammonia, bromoform, chloroform.
Storage and Handling:	Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Keep container tightly closed. Ground, bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting equipment and take precautionary measures against static discharge. Avoid breathing fume, gas, mist, vapors, spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:	
Acetone	OSHA TWA: 1000 ppm; 2400 mg/m ³ ACGIH TWA: 500 ppm; 1,188 mg/m ³ ACGIH STEL: 750 ppm; 1,782 mg/m ³
Engineering Controls:	Use general or local exhaust ventilation to meet TLV and PEL requirements.
Respiratory Protection:	Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved chemical cartridge respirator with an organic vapor cartridge.
Skin/Eye Protective Equipment:	Safety goggles, protective clothing and gloves appropriate for the risk of exposure. Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid
Odor:	Sweet odor
Odor Threshold:	No information available
pH:	No information available
Melting/Freezing Point:	-95 °C
Initial Boiling Point and Boiling Range:	56 °C
Flash Point:	-18 °C
Evaporation Rate:	14.4 Butyl Acetate=1
Flammability:	Flammable
Flammable or Explosive Limits (% by volume in air)	Upper: 13.0 Lower: 2.2
Vapor Pressure:	184 mm Hg@20°C
Vapor Density:	2.0
Relative Density:	0.79 Water=1
Solubility:	Miscible with water
Partition Coefficient: n-octanol/water	-0.24
Auto-Ignition Temperature:	465 °C
Decomposition Temperature:	No information available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Reactivity:	No information available
Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur. May form explosive vapor/air mixtures. May form explosive peroxide
Conditions to Avoid:	Heat, sparks and open flame.

Incompatibles: Incompatible with strong acids, strong bases, strong oxidizers. Halogen acids and halogen compounds, amines, ammonia, bromoform, chloroform.
Decomposition Products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

Inhalation: Harmful if inhaled. Symptoms include respiratory tract irritation, coughing, dizziness, dullness and headache. High concentrations can produce central nervous system depression, narcosis and unconsciousness. Vapor concentrations around 1000 ppm may cause slight transient irritation of the upper respiratory tract.

Skin Contact: Contact with skin may be irritating. Material may be absorbed through the skin in harmful amounts.

Eye Contact: Vapors are irritating to the eyes. Liquid may cause severe irritation with stinging, tearing, redness and pain.

Ingestion: May be harmful if swallowed. Ingestion of larger amounts may produce liver and kidney damage and narcotic effects.

Chronic Effects: Prolonged or repeated skin contact may produce severe irritation or dermatitis.

Target Organs: Eyes, skin, respiratory system, central nervous system. Brain.

Additional Effects: Use of alcoholic beverages enhances the toxic effects of this material. Exposure may increase the toxic potential of chlorinated hydrocarbons.

Reproductive Effects: None identified

Carcinogenicity:

Toxicity Data:

Acetone	LC50 (inhalation, rat)	50,100 mg/m ³ /8hr
	LD50 (intravenous, rat)	5500 mg/kg
	LD50 (oral, rat)	5800 mg/kg
	Irritation (skin, rabbit)	Mild, 500 mg/24 hr

12. ECOLOGICAL INFORMATION

	<u>Aquatic Toxicity Data:</u>	<u>Terrestrial Toxicity Data:</u>
Acetone	LC50 Rainbow trout: 5540 mg/L - 96h	No information available
Persistence and degradability:	No information available	
Bioaccumulative potential:	No information available	
Mobility in soil:	No information available	
Other adverse effects:	No information available	

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transportation, per CFR Title 49.

UN Number:	UN1090
Proper Shipping Name:	Acetone
Packing Group:	II
Hazard Class:	3
Environmental hazards:	No information available
Special precautions:	No information available
Bulk transport:	No information available

15. REGULATORY INFORMATION

Acetone is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 25039 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

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**** END OF SDS ****