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MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME: ACETONE	
CHEMICAL NAME: Acetone	CHEMICAL FAMILY: Ketone
FORMULA: CH ₃ COCH ₃	MOLECULAR WEIGHT: 58.08
SYNONYMS: Dimethyl Ketone, 2-Propanone, Dimethyl Ketal	
DEPARTMENT OF TRANSPORTATION	Hazard Classification Shipping Name: Flammable liquid Acetone
CAS # 67-64-1	CAS NAME 2-Propanone

SECTION II—PHYSICAL DATA

BOILING POINT, 760 mm Hg	56.29°C (133.32°F)	FREEZING POINT	-96.54°C (-141.77°F)
SPECIFIC GRAVITY (H ₂ O = 1)	0.7915 at 20/20°C	VAPOR PRESSURE at 20°C	184 mm Hg
VAPOR DENSITY (air = 1)	2.0	SOLUBILITY IN WATER, % by wt	Complete
PERCENT VOLATILES BY VOLUME	100	EVAPORATION RATE (Butyl Acetate = 1)	14.4
APPEARANCE AND ODOR	Clear liquid; sharp, penetrating, non-residual odor.		

III—INGREDIENTS

MATERIAL	%	TLV	HAZARD
Acetone	100	750 ppm ACGIH 1000 ppm OSHA	Flammable; irritant

IV—FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	0°F, Tag Closed Cup; 4°F, Tag Open Cup		
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	2.15	UPPER 13.0
EXTINGUISHING MEDIA	Use water spray, carbon dioxide, dry chemical, or alcohol-type foams applied by manufacturers' recommended techniques.		
SPECIAL FIRE FIGHTING PROCEDURES	Use supplied breathing air and protective clothing.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Vapors form from this product and may travel or move by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equip., static discharges, or other ignition sources at locations distant from handling point.		

SECTION VI—REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	Ignition sources 2
UNSTABLE	STABLE		
	X		
INCOMPATIBILITY (materials to avoid)		Strong oxidizing agents (such as nitric acid)	
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS		Burning can produce carbon monoxide and/or carbon dioxide.	
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	Alkali (such as caustic soda) can cause condensation reactions to occur, but the reactions are not expected to be violent.
May Occur	Will Not Occur		
	X		

SECTION VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards. Collect large spills for disposal. Flush small spills with water.
WASTE DISPOSAL METHOD	Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Self-contained breathing apparatus in high concentrations.		
VENTILATION	This product should be confined within covered equipment, in which case general (mechanical) room ventilation is expected to be satisfactory. Special, local ventilation is needed at points where vapors can be expected to escape to the air.		
PROTECTIVE GLOVES	Rubber	EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT	Eye bath, safety shower		

IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
 Keep away from heat, sparks, and flame.
 Avoid breathing vapor.
 Avoid contact with eyes.
 Keep container closed.
 Use with adequate ventilation.
 Wash thoroughly after handling.

FOR INDUSTRY USE ONLY

OTHER PRECAUTIONS

While Columbus Chemical Industries, Inc. believes that the data contained herein are factual, they are not to be taken as a warranty or representation for which Columbus Chemical Industries, Inc. assumes legal responsibility. They are offered solely for your consideration, investigation. Any use of these data and information must be determined by the user to be in accordance with the applicable Federal, State, and Local laws and regulations.

SECTION V--HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

750 ppm, ACGIH (1984-5); 1000 ppm, OSHA CFR 29, 1910.1000, Table Z-1. 3

EFFECTS OF ACUTE OVEREXPOSURE

SWALLOWING	Causes nausea, vomiting, headache, dizziness, and stupor.
SKIN ABSORPTION	No evidence of adverse effects from available information.
INHALATION	Causes headache, dizziness, nausea, and vomiting. Vapors may irritate eyes, nose, and throat.
SKIN CONTACT	No immediate irritation. Repeated contact causes defatting and skin chapping.
EYE CONTACT	Causes irritation.

EFFECTS OF REPEATED OVEREXPOSURE

None currently known.

OTHER HEALTH HAZARDS

None currently known.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING	Do not induce vomiting. Call a physician.
SKIN	Flush with water.
INHALATION	Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
EYES	Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

NOTES TO PHYSICIAN

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