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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: 10005
Product Trade Name: Acetone
Product Class / Intended End Use: Thinner/Cleaner
Emergency Telephone Numbers: For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

For Emergency Transportation Information call CANUTEC at 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Flammable liquids	2
Serious eye damage/eye irritation	2A
Specific target organ toxicity – single exposure (respiratory)	3
Specific target organ toxicity – single exposure (narcotic effects)	3
Signal word:	DANGER!

Hazard Statements:

- Highly flammable liquid and vapour
- Causes serious eye irritation
- May cause respiratory irritation
- May cause drowsiness or dizziness

Precautionary Statements:

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

Other Hazards:

- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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Hazard Pictograms:



SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
2-Propanone	67-64-1	100
<i>N/A = Not Available N/E = Not Established</i>		

SECTION 4: FIRST-AID MEASURES

- Ingestion:** Call a physician or poison control centre immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk
- Inhalation:** If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.
- Skin Contact:** Wash off with soap and plenty of water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before re-use.
- Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Obtain medical attention if irritation persists.

Call a poison centre or doctor/physician if you feel unwell.

Most Important Symptoms and Effects (both acute and delayed):

- Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
- Direct skin contact may cause slight or mild, transient irritation.
- May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.
- May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system
- May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Notes to Physician:

- Treat symptomatically. This product is a CNS depressant.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use water fog or fine spray, foams, carbon dioxide or dry chemical. Do not use a solid water stream as it may scatter and spread fire.
Unsuitable Extinguishing Media:	Do not use a heavy water stream.
Specific Hazards Arising from the Substance or Mixture:	Vapours may travel considerable distance to a source of ignition and flash back. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.
Special Protective Equipment and Precautions for Fire Fighters:	Move containers from fire area if possible to do without risk. Use water spray to cool fire-exposed containers. Wear self-contained breathing (SCBA) apparatus and full firefighting protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Water spray may be useful in cooling equipment exposed to heat and flame.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge in to the environment must be avoided.
Methods and Materials for Containment and Clean Up:	Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Use only in well-ventilated areas. Wear suitable protective equipment during handling. Do not ingest or swallow. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat and flame. Use only non-sparking tools with this material. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not use pressure to empty drums. Do not cut, weld, drill or grind on or near this container. Follow labelled warnings even after container is emptied.
Conditions for Safe Storage:	Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
Incompatibles:	Strong oxidizing agents, Activated carbon, and Strong reducing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
2-Propanone	250	500	1000	N/A
<i>N/A = Not Available N/E = Not Established</i>				

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Control Parameters:	No TLV data available on product.
Appropriate Engineering Controls:	Good ventilation should be provided to keep vapour and mist concentrations below the exposure limits.
Respiratory Protection:	Use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapour cartridge and dust/mist filter.
Eye/Face Protection:	Use splash proof chemical goggles, face shield.
Skin Protection:	Wear impervious gloves, such as nitrile rubber. Advice should be sought from glove suppliers.
Other Considerations:	Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Eye wash station and safety shower should be located near the work station.

SECTION 9: PHYSICAL PROPERTIES

Physical State/Appearance:	Clear Liquid
Odour:	Sharp
Odour Threshold:	Data not Available
pH:	Not Applicable
Melting Point:	-98 °C / -144.4 °F
Freezing Point:	Not Applicable
Boiling Point:	56°C / 132 °F
Flash Point (Setaflash Closed Cup):	-18 °C / -4 °F
Relative Evaporation Rate (Butylacetate=1)	Data not Available
Flammability (solid, gas):	Yes
Explosive Limit:	Data not Available
Vapour Pressure:	D128hPa @20°C
Vapour Density:	Data not Available
% Volatiles by Weight:	100
Specific Gravity:	0.793
Solubility in Water:	Complete
Partition Coefficient:	Data not Available
Auto Ignition Temperature:	399 °C / 750.2 °F
Decomposition Temperature:	Data not Available
Viscosity:	<20 cps

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical Stability:	Stable under the recommended storage and handling conditions prescribed.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment.
Incompatibles:	Strong oxidizing agents, Activated carbon, and Strong reducing agents.
Hazardous Decomposition Products:	Carbon oxides. Other irritating fumes and smoke.

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SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
2-Propanone	5800 >15,800	Rat Rabbit	Oral Dermal	30,000	Rat	Inhalation, 4h
<i>N/A = Not Available N/E = Not Established</i>						

Acute Toxicity: See above.

No Test Data for the Mixture On: Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT- repeated exposure, aspiration.

Likely Routes of Exposure: Inhalation, ingestion, skin contact, eye contact.

Symptoms/Injuries Eye Exposure: May cause severe eye irritation.

Symptoms/Injuries Skin Exposure: May cause mild skin irritation.

Symptoms/Injuries Inhalation: May cause irritation of the nose, throat, mucous membranes, and respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Symptoms/Injuries ingestion: May cause irritation of mouth, throat, and stomach. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Specific Target Organ Effects: Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No test data on mixture.
Persistence and Degradability:	Readily biodegradable.
Bio-accumulative Potential:	Does not significantly accumulate in organisms.
Mobility in Soil:	Dissolves in water. If the product enters soil, one or more constituents will or may be mobile and may contaminate ground water.
Other Adverse Effects:	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal: See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

Methods of Disposal: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

DO NOT INCINERATE CLOSED CONTAINERS

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SECTION 14: TRANSPORTATION INFORMATION

UN Number:	1090
UN Proper Shipping Name:	Acetone
Transport Hazard Class:	3
Packing Group:	II
Environmental Hazards:	See ECOLOGICAL INFORMATION, Section 12
Special Precautions for User:	Keep away from heat, sparks and open flame. - No smoking.
Transport in Bulk:	Information not available.

SECTION 15: REGULATORY INFORMATION

- Canada:** All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
- USA:**
- TSCA:** All components of this material are on the US TSCA inventory or are exempt.
 - OSHA:** This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).
 - CERCLA:** Reportable quantities (RQ) (40 CFR 117.302). Data not available.
 - SARA TITLE 111:** Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available
 - SARA TITLE 111:** Sec 313, toxic chemical notification, 40 CFR 372 - Data not available

SECTION 16: OTHER INFORMATION

HMIS:	Health 2	Flammability 3	Reactivity 0	
NFPA:	Health 1	Flammability 3	Reactive Instability 0	Special Hazard 0

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DISCLAIMER

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END OF SAFETY DATA SHEET