



335 Horner Avenue, Toronto, Ontario M8W 1Z6
Canada Ph (416) 251-0051 fx (416) 251-3412
www.protekpaint.com

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: 10010
Product Trade Name: Methyl Ethyl Ketone (M.E.K.)
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
Eye Damage/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 hands thoroughly after handling
- Use only outdoors or in a well-ventilated area
- Wear protective gloves and eye/face protection

Other Hazards:

- Other hazards May be sensitive to static discharge. Take measures to prevent the build up of electrostatic charge.

Hazard Pictograms:



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
Butanone	78-93-3	100
<i>N/A = Not Available N/E = Not Established</i>		

SECTION 4: FIRST-AID MEASURES

- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- 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. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin Contact:** Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
- 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):

- May cause respiratory irritation.
- May cause coughing and breathing difficulties.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. May cause eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
- May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
- May cause skin irritation. Symptoms may include redness, itching and swelling.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Aspiration hazard. This product is a CNS depressant.

Notes to Physician:

- Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Use water fog or fine spray, alcohol resistant foams, carbon dioxide or dry chemical.
- Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.
- Specific Hazards Arising from the Substance or Mixture:** Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material. Empty containers may contain hazardous residues.
- 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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

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 the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat and flame – NO SMOKING. Use only non-sparking tools with this material. Take precautionary measures against static discharges. Ground all equipment during handling.

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. Keep containers tightly closed when not in use. Empty containers may contain hazardous residues. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides.

Incompatibles:

Halogens. Acids. Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Butanone	200	300	200	N/A
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Control Parameters:	No TLV data available on product.
Appropriate Engineering Controls:	Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.
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:	Wear eye/face protection. Wear as appropriate. Tightly fitting safety goggles.
Skin Protection:	Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
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:	79.59°C / 175.26°F
Flash Point (Setaflash Closed Cup):	-4 °C / 24.8 °F
Relative Evaporation Rate (Butylacetate=1)	Data not Available
Flammability (solid, gas):	Yes
Explosive Limit:	Data not Available
Vapour Pressure:	78 (20°C / 68°F)
Vapour Density:	Data not Available
% Volatiles by Weight:	100
Specific Gravity:	0.81
Solubility in Water:	Partial
Partition Coefficient:	Data not Available
Auto Ignition Temperature:	399 °C / 750.2 °F
Decomposition Temperature:	Data not Available
Viscosity:	<20 cps

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical Stability:	Stable under normal conditions. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.
Incompatibles:	Halogens. Acids. Strong oxidizers (e.g. Chlorine, Peroxides, etc.).
Hazardous Decomposition Products:	None known, Refer to hazardous combustion products in Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
Butanone	5800	Rat	Oral	30,000	Rat	Inhalation, 4h
	>15,800	Rabbit	Dermal			
<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/absorption, eye contact.
Symptoms/Injuries Eye Exposure:	Causes severe eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
Symptoms/Injuries Skin Exposure:	May cause mild skin irritation. Symptoms may include redness, itching and swelling.
Symptoms/Injuries Inhalation:	May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Symptoms/Injuries ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Potential Chronic Health Effects:	May cause damage to the central nervous system through prolonged or repeated exposure if inhaled. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.
Specific Target Organ Effects:	Specific Target Organ Toxicity, Single Exposure -Category 3 (Respiratory) Specific Target Organ Toxicity, Single Exposure - Category 3 Narcotic Effects May cause respiratory irritation. May cause drowsiness or dizziness.

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No test data on mixture.
Persistence and Degradability:	Readily biodegradable.
Bio-accumulative Potential:	No information available.
Mobility in Soil:	No test data on mixture.
Other Adverse Effects:	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

- Handling for Disposal:** Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
- 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

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	1193
UN Proper Shipping Name:	Methyl Ethyl Ketone
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 1	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