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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Methyl Iso Butyl Ketone ME400-00

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER:	Same as above		
PREPARED BY:	Production Department		
VERSION DATE:	01-Aug-16		
TELEPHONE NO.:	(519) 451-1614		
EMERGENCY PHONE NO.:	(613) 996-6666		
CHEMICAL FAMILY	Not Available	**CHEMICAL FORMULA**	Not Applicable
MOLECULAR WEIGHT	Not Applicable	**MATERIAL USE:**	Please Refer to technical literature

SYNONYMS:

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Methyl isobutyl ketone	100	108-10-1	2080 mg/kg	8.2 mg/L	N.Av.

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: Causes eye irritation. Symptoms of exposure may include: a burning Sensation, redness, swelling and blurred vision.

Skin: Skin irritation signs and symptoms may include a burning sensation, redness, swelling and blisters. May cause defatting, drying and cracking of the skin.

Inhalation Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat,coughing and difficulty breathing. If material enters lungs, signs and symptoms may include coughing, choking, wheezing,difficulty in breathing, chest congestion, shortness of breath and fever. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

Ingestion: Moderately toxic. May cause irritation of the mouth and throat, causing abdominal discomfort, nausea,vomiting and diarrhea. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

SECTION 04: FIRSTAID

Skin Contact: Flush with copious amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur,seek medical attention.

Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists or signs of toxicity occur, seek medical attention.

Inhalation, Acute Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate

medical attention

Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g. gastric lavage after endotracheal intubation).

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE?	Yes
IF YES, UNDER WHICH CONDITIONS?	
FLASH POINT (TCC) (C):	14 °C
FLAMMABLE LIMITS:	**LEL(% BY VOL.):** 1.3 **UEL(% BY VOL):** 8
AUTO IGNITION TEMPERATURE (C)	460 °C
EXTINGUISHING MEDIA	Use DRY chemicals, CO2, alcohol foam or water spray.
SPECIAL PROCEDURES:	Fire fighters should wear full protective clothing, including self-contained breathing equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Flammable Liquid. Isolate and restrict area access. Stop leak only if safe to do so. Move containers from fire area if you can do it without risk. Fight fire from a safe distance and from a protected location. Use flooding quantities of water for fire and water spray or fog for vapours. Containers exposed to intense heat from fires should be cooled with water to prevent vapour pressure build-up which could result in container rupture. This material may produce a floating fire hazard in Extreme fire conditions. This product can produce flammable vapors which may travel to a source of ignition and flash back.
SENSITIVITY TO STATIC DISCHARGE	Not Available
SENSITIVITY TO MECHANICAL IMPACT:	Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Personal Precautionary Measures: Wear appropriate protective equipment. Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed.
Procedure for Clean Up: Flammable liquid. Isolate hazard area and restrict access. Stop leak only if safe to do so. Remove ignition sources and work with non-sparking tools. Small spills: soak up with absorbent material and scoop into containers. Large spills : prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Storage Requirements

Handling: Flammable. For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat, or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire.Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<= 10 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Extinguish any naked flames.
Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Keep away from aerosols, flammables, oxidizing agents, corrosives. Keep away from direct sunlight.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE:	Impervious chemical resistant gloves.
RESPIRATOR/TYPE:	If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.
EYE/TYPE:	Chemical goggles; also wear a face shield if splashing hazard exists.
OTHER/TYPE:	Ensure that eyewash stations and safety showers are proximal to the work-station location.
ENGINEERING CONTROL	Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Electrical and mechanical equipment should be explosion proof.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIE

PHYSICAL STATE/APPEARANCE:	Liquid		
ODOUR:	Characteristic.	**ODOUR THRESHOLD:**	N. Av.
VAPOUR PRESSURE (mm Hg @ 20C):	0.9kPa@20 C	**VAPOUR DENSITY (Air=1):**	3.5 @ 20°C
EVAPORATION RATE (Ether = 1):	1.6	**SPECIFIC GRAVITY:**	0.799-0.802.
BOILING POINT (C):	114-117 °C	**FREEZING POINT (C)**	-85 °C
Ph (% SOLUTION):	N. Av.	**% VOLATILE (WT):**	100 % Wt
SOLUBILITY IN WATER (% W/W)	20 g/l @ 20°C		

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE? Stable

IF NO, UNDER WHICH CONDITIONS?

INCOMPATIBILITY WITH OTHER SUBTANCES Yes

IF YES, WITH WHICH ONES: Alkalies. Halogens. Mineral acids.

SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition type, Thermal: Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL See Sec 2

LC 50 OF MATERIAL, SPECIES AND ROUTE See Sec 2

LD 50 OF MATERIAL, SPECIES AND ROUTE See Sec 2

CARCINOGENICITY OF MATERIAL

REPRODUCTIVE EFFECTS:

IRRITANCY OF MATERIAL

SENSITIZING CAPABILITY OF MATERIAL

SYNERGISTIC MATERIALS

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY Biodegrades easily in water.This material is not expected to bioaccumulate.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal of Waste Method: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations. Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION Class 3, Methyl Iso butyl Keytone

UN NUMBER: 1245

PACKING GROUP: II

Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION B2

B2 FLAMMABLE LIQUIDS

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available

N.App. / N.Ap. = Not Applicable

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SOURCES: Supplier MSDS

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