



halton chemical inc.
QUALITY BLENDERS SINCE 1962

- lacquers & related wood coatings
- solvent based & water based products
- adhesives
- coatings
- cleaners
- degreasers
- thinners
- reducers
- epoxies
- polyurethanes
- toll manufacturing
- product development
- product enhancement
- quality control
- warehousing & logistics

SECTION 1 – PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

Manufacturer:..... HALTON CHEMICAL INC.
840 APPLEBY LINE, BURLINGTON, ON L7L 2Y7
www.haltonchemical.com

Phone:..... 905-637-3613

Supplier: SCREENTEC CORPORATION
930 WESTPORT CRESCENT, MISSISSAUGA, ON L5T 1G1
www.screentec.ca

Phone:..... 905-670-7042

Emergency Phone: CANUTEC (24H) 1-613-996-6666

Poison Control:..... 800-268-9017

Revision Date:..... February 10, 2016

Print Date:..... February 11, 2016

Version Number:..... 1

Product: T5144 METHYL ETHYL KETONE

Product Use: INDUSTRIAL SOLVENT
FOR INDUSTRIAL USE ONLY

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

Target Organs:

Central nervous system.

WHMIS Classification:

B2 - FLAMMABLE LIQUID

D2B - TOXIC (EYE IRRITANT)

GHS Classification:

Eye Irritation (Cat. 2A)

Specific Target Organ Toxicity- Single Exposure (Cat. 3) - Central Nervous System, Respiratory Irritation

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GHS Label Elements, including precautionary statements:

Pictogram:



Signal Word:..... **Danger**

Hazard Statement(s):

H225: Highly flammable liquid and vapour

H335: May cause respiratory irritation

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

Precautionary Statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/lighting/equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P264: Wash skin thoroughly after handling

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P271: Use only in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face protection

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P337+313: If eye irritation persists get medical advice/attention

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P370+378: In case of fire: Use foam, water fog, dry chemical and/or carbon dioxide for extinction

P405: Store locked up

P403+235: Store in a well ventilated place. Keep cool

P501: Dispose of contents/container to comply with local, provincial, state, and federal regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT

Methyl Ethyl Ketone

CAS NUMBER

78-93-3

%

100

Refer to Section 8 for Occupational Exposure Guidelines.

SECTION 4 – FIRST-AID MEASURES

Inhalation:

This product is (extremely) flammable. Take proper precautions (e.g. remove any sources of ignition). Take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment, use the buddy system). Remove source of contamination or move victim to fresh air. If breathing is difficult, trained personnel should

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administer emergency oxygen. Do not allow victim to move about unnecessarily. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. Quickly transport victim to an emergency care facility.

Ingestion:

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 60-240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Immediately obtain medical attention.

Eyes:

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding eyelid(s) open. Obtain medical advice.

Skin:

As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). (Note: It may be necessary to store contaminated clothing under water until it can be safely decontaminated or discarded.) Immediately obtain medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

Note to Physician:

Treatment should be based on sound judgement of physician and individual reactions of patient.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media:

Dry chemical, foam, carbon dioxide, water fog. Do not use water in a jet.

Special Fire Fighting Procedures:

Do not use water except as a fog. Use water spray to cool fire-exposed containers or structures. Product will float and can be reignited on surface of water.

Unusual Fire and Explosion Hazards:

Vapours and/or fumes from this product are heavier than air and may travel to a source of ignition and flash back causing explosion and fire. Never use welding or cutting torch on, or near drum (even empty) as product (even residue) can ignite explosively. All containers including cans, pails, drums, tank cars & trucks should be grounded and/or bonded when material is transferred.

Hazardous Combustion Products:

Carbon monoxide and/or carbon dioxide.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:

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.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Dyke and contain spills. Do not let product enter drains.

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Methods and Materials for Containment and Clean Up:

Contain and/or dyke spills. Absorb with inert material, place in a suitable container. Report and dispose of according to local regulations.

SECTION 7 – HANDLING AND STORAGE

Storage:

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage and evaporation.

Handling:

Use in a well ventilated area. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof tools, equipment, and ventilation system. Keep away from sources of ignition. Take measures to prevent the build-up of electrostatic charge. Always ground and bond containers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Threshold Limit Value:..... STEL 300 ppm ACGIH

Engineering Controls:

Use local, mechanical, explosion proof exhaust and/or ventilation system to avoid exposure and vapour accumulation.

Personal Protective Equipment:

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate, use an approved respirator for the concentration and type of hazardous materials in the workplace. Use respirators and components tested and approved under the appropriate government standards. Use respirators as backup to engineering controls if necessary.

Hand Protection:

Handle with gloves to minimize skin contact. Inspect gloves prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly.

Eye Protection:

Safety glasses and/or face shield. Use equipment for eye protection tested and approved under the appropriate government standards.

Protective Clothing:

Impervious clothing, flame retardant, antistatic protective clothing. The type of protective equipment should be selected according to the concentration and amount of hazardous materials at each specific workplace.

Additional Measures:

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

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SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Physical State: Liquid
Appearance/Odour: Clear, colourless, ketone odour
Odour Threshold: Not available.
Vapour Density (AIR=1): 2.4 @ 20°C
Boiling Point: 79-80.5°C
Melting/Freezing Point: -87°C
Vapour Pressure:..... 78 mmHg @ 20°C
Evaporation Rate: 2.7 (BuAe=1)
Specific Gravity: 0.806 @ 20°C
Solubility in Water: 26% @ 20°C
Coeff. Water/Oil Dist.:..... Not available.

Flashpoint: -3.0°C T.C.C.
Autoignition Temp:..... 404°C
Upper Flammable Limit:..... 10.1%
Lower Flammable Limit: 1.8%

SECTION 10 – STABILITY AND REACTIVITY

Stability:

Stable.

Hazardous Decomposition Products:

Carbon monoxide and/or carbon dioxide.

Materials to Avoid:

Oxidizing agents, reducing agents, acids, and halogens.

Hazardous Reactions:

After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides.

Conditions to Avoid:

Heat, flames and sparks.

SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	LD50	LC50	HRS
Methyl Ethyl Ketone	2737 mg/kg	11700 ppm	4

Skin corrosion/irritation:

Rabbit - no skin irritation - OECD Test Guideline 404

Serious eye damage/irritation:

Rabbit - irritating to eyes - OECD test guideline 405

Respiratory or skin sensitization:

Not expected.

Germ cell mutagenicity:

Not expected to be mutagenic in humans.

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Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

Reproductive effects have been reported in animals. Effects were seen at high doses only. The relevance of these findings to humans is unclear.

Teratogenicity:

No data.

Specific target organ toxicity (single exposure):

May cause central nervous system depression. May cause respiratory system irritation.

Specific target organ toxicity (repeated exposure):

No data.

Aspiration hazard:

No data.

Potential Health Effects:**Inhalation:**

Vapours are moderately irritating to the respiratory passages; prolonged exposure to high vapour concentration may cause headache, dizziness, nausea, blurred vision and central nervous system depression.

Ingestion:

Causes irritation, a burning sensation of the mouth, throat and abdominal pain. May cause central nervous system (cns) depression, dizziness, headache, diarrhea, nausea and vomiting.

Skin:

May cause mild irritation. Prolonged or repeated overexposure can cause drying, cracking and defatting which can cause dermatitis.

Eyes:

Irritating, may cause a burning sensation, redness, swelling, and/or blurred vision.

Signs and Symptoms of Exposure:

Can cause central nervous system effects, respiratory irritation and eye irritation.

Synergistic effects:

None known.

Additional information:

Overexposure can lead to CNS effects.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate and Distribution:

Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required.

Aquatic toxicity:

LC50 (Pimephales Promelas) 3130-3320 mg/L, 96H

Persistence and degradability:

Readily biodegradable.

Bioaccumulative potential:

No data.

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Mobility in soil:

No data.

Other adverse effects:

None known.

SECTION 13 –DISPOSAL CONSIDERATIONS

Waste disposal:

Collect and reclaim or dispose in sealed containers at a licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of in accordance with all applicable regulations.

Contaminated Packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since empty containers may retain product residue, follow any label warnings even after container is emptied.

SECTION 14 – TRANSPORTATION INFORMATION

TDG Classification (Ground Only):CLASS 3 UN1193 II

Proper Shipping Name (Ground Only):METHYL ETHYL KETONE

A scientific determination was concluded based on formulation ingredients on February 10, 2016 to define the Transportation of Dangerous Goods Classifications.

SECTION 15 - REGULATIONS

This material is included on the DLS (Canadian Domestic Substance List) under the CEPA (Canadian Environmental Protection Act).

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

This material meets TSCA (Toxic Substances Control Act) inventory requirements.

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

SECTION 16 – OTHER INFORMATION

LEGEND TO ABBREVIATIONS:

CAS: CHEMICAL ABSTRACT SERVICES

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

LC: LETHAL CONCENTRAION

LD: LETHAL DOSE

TDG: TRANSPORTATION OF DANGEROUS GOODS

TWA: TIME WEIGHTED AVERAGE

VOC: VOLATILE ORGANIC COMPOUND

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