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: October 11, 2018
Print Date: October 12, 2018
Version Number: 2

Product: T4170 ISOPROPYL ALCOHOL
Product Use: INDUSTRIAL SOLVENT
FOR INDUSTRIAL USE ONLY

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

Target Organs:
Central nervous system, eyes.

GHS Classification:
Flammable Liquids (Cat. 2)
Eye Irritation (Cat. 2A)
Specific Target Organ Toxicity- Single Exposure (Cat. 3) - Central Nervous System

GHS Label Elements, including precautionary statements:

Pictogram:

Signal Word:..... Danger

Hazard Statement(s):
H225: Highly flammable liquid and vapour
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
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
P264: Wash skin thoroughly after handling
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
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P271: Use only in a well-ventilated area
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
P403+235: Store in a well ventilated place. Keep cool
P405: Store locked up
P370+378: In case of fire: Use foam, water fog, dry chemical and/or carbon dioxide to extinguish
P501: Dispose of contents/container to comply with local, provincial, state, and federal regulations

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	%
Isopropanol	67-63-0	100.00

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). If breathing is stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). 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 rinse mouth with water again. Obtain medical advice.

Eyes:
Quickly and gently blot or brush chemical off the face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

Skin:
Remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). Flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, repeat flushing. Obtain medical advice. Completely decominate 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:
Foam, water fog, dry chemical, carbon dioxide.

Special Fire Fighting Procedures:
Use water spray to cool fire-exposed containers or structures. Do not use water in a jet.

Unusual Fire and Explosion Hazards:
Vapours 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. Avoid static discharge conditions.

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.

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:..... 200 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.

SECTION 9 – PHYSICAL / CHEMICAL PROPERITES

Physical State: ..... Liquid
Appearance/Odour: ..... Clear, colourless with alcohol odour
Odour Threshold: ..... 40 ppm detection
..... 2000 ppm IDLH (Immediate Danger to Life and Health)
Vapour Density (AIR=1): 2.1
Boiling Point: ..... 82-83°C
Melting/Freezing Point: ..... -88°C
Vapour Pressure:..... 33 hPa @ 20°C
Evaporation Rate: ..... 1.5 (nBuAc=1)
Specific Gravity: ..... 0.78-0.79 @ 20°C
Solubility in Water: ..... Soluble
Coeff. Water/Oil Dist.:..... No data

Flashpoint: ..... 12°C C.C.
Autoignition Temp:..... 399°C
Upper Flammable Limit:..... 12.0%
Lower Flammable Limit: 2.0%

SECTION 10 – STABILITY AND REACTIVITY

Stability:
Stable.

Hazardous Decomposition Products:
Carbon monoxide and/or carbon dioxide. Aldehydes, low molecular weight carboxylic acids.

Materials to Avoid:
Strong oxidizing agents.

Hazardous Reactions:
No data.

Conditions to Avoid:
Heat, flames and sparks.

SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	LD50	LC50	HRS
Isopropanol	5045 mg/kg	30.1 mg/L	4

Skin corrosion/irritation:
Rabbit - mild skin irritation - 24H

Serious eye damage/irritation:
Rabbit - eye irritation - 24H

Respiratory or skin sensitization:
Not classified as a sensitization hazard.

Germ cell mutagenicity:
Not expected to be mutagenic in humans.

Carcinogenicity:
IARC has classified Isopropyl Alcohol as not classifiable as to its carcinogenicity, Group 3.

Reproductive toxicity:
No adverse effects are anticipated. Adequate studies have not been completed with data available to allow for definitive classification.

Teratogenicity:
Not available.

Specific target organ toxicity (single exposure):
May cause central nervous system depression.

Specific target organ toxicity (repeated exposure):
Not classified as a repeat exposure hazard.

Aspiration hazard:
Not classified as an aspiration hazard.

Potential Health Effects:

Inhalation:
Excessive inhalation of vapours can cause nasal and respiratory irritation. Prolonged exposure to high vapour concentration can lead to central nervous system depression. Signs of this include headache, nausea, dizziness, blurred vision and incoordination. Observations in animals include middle ear damage upon exposure to high vapour concentrations. Relevance to humans is unknown.

Ingestion:
Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. 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:
Prolonged or repeated contact may dry the skin and cause defatting and dermatitis. Symptoms may include redness, burning sensation, drying and cracking of skin.

Eyes:
May cause eye irritation. May cause tearing, burning sensation, redness, swelling, and/or blurred vision. Pain may be disproportionate to level of irritation. Can cause lachrymation (excess tears). Vapours: no irritation reported at 200 ppm. 3-5 minutes at 400 ppm may result in irritation, as well as respiratory irritation. At 800 ppm irritation intensifies, but is not unbearable.

Signs and Symptoms of Exposure:
Can cause central nervous system effects, including dizziness, weakness, fatigue, nausea, headache, blurred vision and possible unconsciousness.

Synergistic effects:
No data.

Additional information:
May cause central nervous system (CNS) depression. CNS depression is characterized by headache, dizziness, nausea, vomiting and incoordination.

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.

Aquatoxicity:
LC50 (Pimephales Promelas) 9640 mg/L, flow-through, 96H
LC50 (Pimephales Promelas) 11130 mg/L, static, 96H

Persistence and degradability:
No data.

Bioaccumulative potential:
No bioaccumulation expected. (log Pow<=4)

Mobility in soil:
No data.

Other adverse effects:
Not expected to be harmful to aquatic life.

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 UN1219 II
Proper Shipping Name (Ground Only): .....ISOPROPANOL

A scientific determination was concluded based on formulation ingredients on October 11, 2018 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 CONCENTRATION
LD: ..... LETHAL DOSE
TDG: ..... TRANSPORTATION OF DANGEROUS GOODS
TWA: ..... TIME WEIGHTED AVERAGE
VOC: ..... VOLATILE ORGANIC COMPOUND

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