



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 23, 2017

Print Date:..... February 28, 2017

Version Number:..... 1

Product: ET-5 RETARDER

Product Use: INDUSTRIAL SOLVENT, CLEANER, DEGREASER,
RETARDER
FOR INDUSTRIAL USE ONLY

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

Target Organs:

Respiratory system, skin, eyes, oral effects.

WHMIS Classification:

B3 - COMBUSTIBLE LIQUID
D2B - TOXIC (EYE AND SKIN IRRITANT)
D1A - VERY TOXIC

GHS Classification:

Flammable Liquids (Cat. 3)
Acute Toxicity Oral (Cat. 4)
Acute Toxicity Inhalation (Cat. 4)
Acute Toxicity Dermal (Cat. 4)
Skin Irritation (Cat. 2)
Eye Irritation (Cat. 2A)

Safety Data Sheet - ET-5 RETARDER

GHS Label Elements, including precautionary statements:

Pictogram:



Signal Word:..... **Warning**

Hazard Statement(s):

- H226: Flammable liquid and vapour
- H302: Harmful if swallowed
- H332: Harmful if inhaled
- H312: Harmful in contact with skin
- H315: Causes skin irritation
- H319: Causes serious eye irritation

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
- P270: Do not eat, drink or smoke when using this product
- 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
- P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P330: Rinse mouth
- 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
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P362+364: Take off contaminated clothing and wash it before reuse
- P332+313: If skin irritation occurs: Get medical advice/attention
- 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
- P403+235: Store in a well ventilated place. Keep cool
- 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	%
2-butoxyethanol	111-76-2	100.00

Refer to Section 8 for Occupational Exposure Guidelines.

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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). Remove source of contamination or move victim to fresh air. If breathing is difficult, trained personnel should 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. 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 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:

Avoid direct contact. Wear chemical protective clothing if necessary. As quickly as possible, remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). Immediately flush with lukewarm, gently flowing water for 15-20 minutes. Immediately obtain medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

Note to Physician:

Consult a poison control centre for guidance. 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.

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 pails, drums, tank cars & trucks should be grounded and/or bonded when material is transferred.

Hazardous Combustion Products:

Carbon monoxide and/or carbon dioxide.

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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:..... 20 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.

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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 PROPERTIES

Physical State: Liquid
Appearance/Odour: Clear, colourless, ether odour
Odour Threshold: 0.48 ppm
Vapour Density (AIR=1): 4.1
Boiling Point: 169°C
Melting/Freezing Point: -75°C
Vapour Pressure:..... 0.4 mmHg @ 20°C
Evaporation Rate: 0.06
Specific Gravity: 0.902 @ 20°C
Solubility in Water: Complete
Coeff. Water/Oil Dist.:..... Not available
Flashpoint: 60°C T.C.C.
Autoignition Temp:..... 230°C
Upper Flammable Limit:..... 12.7%
Lower Flammable Limit: 1.1%

SECTION 10 – STABILITY AND REACTIVITY

Stability:

Stable.

Hazardous Decomposition Products:

Carbon monoxide and/or carbon dioxide.

Materials to Avoid:

Strong oxidizing agents, acids, strong bases.

Hazardous Reactions:

No data.

Conditions to Avoid:

Heat, flames and sparks.

SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	LD50	LC50	HRS
2-butoxyethanol	880 mg/kg	486 ppm	4

Skin corrosion/irritation:

Rabbit - skin irritation - 20 hour

Serious eye damage/irritation:

Rabbit - irritating to eyes - OECD test guideline 405

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Respiratory or skin sensitization:

Maximisation Test (GPMT) - guinea pig - does not cause skin sensitization OECD Test Guideline 406

Germ cell mutagenicity:

Not expected to be mutagenic in humans.

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:

Not classified as a reproductive toxicant.

Teratogenicity:

May cause fetotoxic and/or embryotoxic effects at maternally toxic levels.

Specific target organ toxicity (single exposure):

Not classified as a single exposure toxicant.

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 can cause nasal and respiratory irritation. May cause coughing and sneezing, may cause headache.

Ingestion:

Toxic. Causes irritation, a burning sensation of mouth, throat and abdominal pain.

Skin:

Skin irritation signs and symptoms may include a burning sensation, redness, swelling. May result in drying and dermatitis.

Eyes:

Can cause severe irritation. Possible corneal injury, redness, tearing and pain. May cause lachrymation (excessive tears) and conjunctivitis. Damage may be delayed and may occur without the onset of pain. Effects may be slow to heal.

Synergistic effects:

Not available.

Additional information:

Excessive exposure may cause hemolysis impairing the blood's ability to carry oxygen. This may lead to kidney and liver damage. Risk of serious damage to eyes.

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 (Oncorhynchus Mykiss) 1474 mg/L, 96H, OECD Test Guideline 203

Persistence and degradability:

Aerobic: 90.4% readily biodegradable OECD Test Guideline 301B

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Bioaccumulative potential:

No data.

Mobility in soil:

No data.

Other adverse effects:

No data.

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):NON REGULATED

Proper Shipping Name (Ground Only):NON REGULATED

A scientific determination was concluded based on formulation ingredients on February 23, 2017 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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