

Chemicals Ltd. Safety Data Sheet

Section 01 - Identification

Product Identifier Concrete Retardant – Vertical

Other Means of Identification None

Product Use and Restrictions on

Use

A reddish surface retardant for use on a vertically placed concrete.

Initial Supplier Identifier Advance Chemicals Ltd.

1500 Quebec Avenue Saskatoon, SK. Canada

S7K 1V7

Prepared By ClearTech Industries Inc. Technical Writer

Phone: 1 (800) 387-7503

24-Hour Emergency Phone Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

Serious Eye Damage/Irritation Category 2
STOT-Single Exposure Category 3

Physical Hazards

Flammable Liquid Category 3

Warning

Hazards Statements

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H226 – Flammable liquid and vapour.

Pictograms



Precautionary Statements

P403 + P235 – Store in a well-ventilated place. Keep cool.

P210 – Keep away from heat, sparks, open flames, and hot surfaces. — No smoking.

P233 - Keep container tightly closed.

P405 - Store locked up.

P240 – Ground/bond container and receiving equipment.

- P241 Use explosion-proof electrical, ventilating, lighting, and equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P370 + P378 In case of fire: Use carbon dioxide, dry chemical powder, appropriate foam, water spray or fog for extinction.
- P261 Avoid breathing fumes, mist, vapours, or spray.
- P271 Use only outdoors or in a well-ventilated area.
- P304 + P340 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.
- P280 Wear protective gloves, protective clothing, eye protection, and face protection.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Isopropyl Alcohol Water and/or ingredients not classified as hazardous under the Hazardous Products Regulations	67-63-0	<10% ≥ 90%	

Section 04 - First Aid Measures

tion only if breathing has stopped. If
31

breathing is difficult, give oxygen. Seek medical attention.

Skin Contact / Absorption Removed contaminated clothing. Rinse skin with lukewarm, gently flowing water. If

irritation persists, repeat flushing and seek medical attention. Completely decontaminate

clothings, shoes and leather goods before reuse or discard.

Immediately flush eye(s) with lukewarm, gently flowing water for at least 30 minutes, while **Eye Contact**

forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. If a contact lens is present, remove only if easy to do so. If irritation persists, seek medical

attention.

Ingestion NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious

> or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Seek immediate medical attention.

Additional Information This chemical is flammable. Take proper precautions to ensure your own safety before

assisting others.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Water may

be effective for cooling, but may not be effective for extinguishing a fire as it may not cool isopropanol below its flash point. Firefighting foams, such as multipurpose alcohol-

resistant foams, are recommended for most flammable liquid fires.

Not Available **Unsuitable Extinguishing Media**

Chemical

Specific Hazards Arising From the During a fire, irritating/toxic gases, such as carbon monoxide and carbon dioxide, and other toxic and irritating gases, smoke and fumes may be generated. The vapour can accumulate in confined spaces, resulting in a toxicity and flammability hazard. Closed containers may rupture violently and suddenly release large amounts of product when

exposed to fire or excessive heat for a sufficient period of time.

Precautions for Fire-Fighters

Special Protective Equipment and Wear NIOSH-approved self-contained breathing apparatus and protective gear.

Further Information

Isopropanol can readily form explosive mixtures with air.

Section 06 - Accidental Release Measures

Equipment / Emergency

Procedures

Personal Precautions / Protective Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Environmental Precautions

Prevent material from entering sewers, waterways or confined spaces.

Methods and Materials for Containment and Cleaning Up Keep materials which can burn away from spilled material.

SMALL SPILLS: Soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labelled containers. Flush area with water. LARGE SPILLS: Contact fire and emergency services and supplier for advice. Contain spill with earth, sand, or absorbent material which does not react with spilled material. Remove liquid by explosion-proof pumps or vacuum equipment. Place in suitable,

covered, labelled containers.

Contaminated absorbent material may pose the same hazards as the spilled product.

Section 07 - Handling and Storage

Precautions for Safe Handling This material is a FLAMMABLE liquid and an EYE IRRITANT. Use proper equipment for

lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful

exposure.

Conditions for Safe Storage

Store in a cool, well-ventilated area, out of direct sunlight and away from heat and ignition sources. Keep storage area clear of burnable materials. Lighted cigarettes, matches, or any other ignition sources should not be allowed around indoor or outdoor storage areas.

Incompatibilities

Strong oxidizing agents and strong acids.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Isopropanol	ACGIH	TLV-TWA	200ppm
	ACGIH	TLV-STEL	400ppm
	OSHA	PEL-TWA	400ppm
	OSHA	PEL-STEL	500ppm

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

> control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Emergency shower and eyewash must be available and tested in accordance with Other

regulations and be in close proximity.

Protective Equipment

Chemical safety goggles and/or face shield should be worn while product is being Eyes/Face

handled. Contact lenses should not be worn while product is being handled as they may

contribute to severe eye damage.

Hand Protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all

times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection RECOMMENDED (resistance to breakthrough longer than 8 hours): Butyl rubber,

neoprene rubber, nitrile rubber, Viton(R), Viton butyl rubber, Barrier (PE/PA/PE), Silver Shield/4H(R) (polyethylene/ethylene vinyl alcohol), Tychem (R) CPF3, Tychem F(R),

Tychem(R) Responder(R).

Respiratory Protection NIOSH/OSHA RECOMMENDATIONS FOR ISOPROPYL ALCOHOL

CONCENTRATIONS IN AIR:

UP TO 2000ppm: SAR operated in a continuous-flow mode; or full-face piece chemical cartridge respirator with organic vapour cartridge(s); or gas mask with organic vapour canister; or powered air-purifying respirator with organic vapour cartridge(s); or full-face

piece SCBA; or full-face piece SAR.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS: Positive pressure, full-face piece SCBA; or positive pressure, full-face

piece SAR with an auxiliary positive pressure SCBA.

ESCAPE: Gas mask with organic vapour canister; or escape-type SCBA.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

<u>Appearance</u>

Physical State Liquid

Colour Clear, red

Odour Sweet, blended odour

Odour Threshold Not Available

Property

pH Not Available

Melting Point/Freezing Point Not Available

Initial Boiling Point and Boiling

Range

Not Available

Flash Point 30-41°C (87.8-105°F)

Evaporation Rate Not Available

Flammability Flammable liquid

Upper Flammable Limit 12%

Lower Flammable Limit 2%

Vapour Pressure (mm Hg, 20°C) Not Available

Vapour Density (Air=1) Not Available

Relative Density Not Available

Solubility(ies) Soluble in water

Partition Coefficient: n-

octanol/water

Not Available

Auto-ignition Temperature

399°C

Decomposition Temperature

Not Available

Viscosity

Not Available

Explosive Properties

Can readily form explosive mixtures with air.

Specific Gravity (Water=1)

1.08

% Volatiles by Volume

Not Available

Formula

Mixture

Molecular Weight

Not Available

Section 10 - Stability and Reactivity

Reactivity Peroxidation reactions may occur in anhydrous secondary alcohols, such as 2-propanol,

when stored for long periods in contact with air or oxygen. A number of explosions have been reported, which occurred during distillation of 2-propanol following prolonged storage (more than 4 years). The rate of peroxidation was greatest under the following conditions: anhydrous solvent (no water), contact with air or oxygen in a partially full container, exposure to sunlight and the presence of trace amounts of contaminants such as 2-

butanone which accelerated the reaction.

Stability

Normally stable.

Possibility of Hazardous

Reactions

Hazardous polymerization will not occur.

Conditions to Avoid Open flames, sparks, electrostatic discharge, heat and other ignition sources, light,

prolonged storage.

Incompatible Materials

Strong oxidizing agents and strong acids.

Hazardous Decomposition

Products

Unstable peroxides.

Section 11 - Toxicological Information

Acute Toxicity Estimate

ComponentOral LD50Dermal LD50Inhalation LC50Concrete Retardant-Vertical40 g/kg142 g/kg462 mg/L

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

Component

IARC

Concrete Retardant-Vertical

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

Skin Corrosion/Irritation May cause moderate irritation.

Ingestion Non-toxic.

Inhalation Exposure to vapours may cause central nervouse system depression with symptoms

such as headache, nausea, dizziness, vomiting and incoordination. Vapours may also

cause respiratory irritaiton.

Serious Eye Damage/Irritation Isopropanol is a moderate to severe eye irritant.

Respiratory or Skin Sensitization Not expected to be a skin sensitizer.

Germ Cell Mutagenicity Isopropanol is not considered to be mutagenic.

Reproductive Toxicity Isopropanol is not considered a reproductive toxin.

STOT-Single Exposure Inhalation may cause dizziness, drowsiness and respiratory irritation.

STOT-Repeated Exposure Not Available

Aspiration Hazard Aspiration can result in severe, life-threatening lung damage.

Synergistic Materials Isopropanol has enhanced the toxicity of carbon tetrachloride, 1,1,2-trichloroethane,

chloroform, trichloroethylene, and dimethylnitrosamine in rodents.

Section 12 - Ecological Information

Ecotoxicity

Component Toxicity to Algae Toxicity to Fish Toxicity to Daphnia and Other Aquatic Invertebrates

Isopropanol EC₅₀(Green algae, 24hr): LC₅₀

reen algae, 24hr): LC₅₀(Gambusia affinis, 24hr): 1000mg/L >1400mg/L

Dtner Aquatic invertebrat LC₅₀(Daphnia magna, 24hr):10000mg/L

Biodegradability

Bioaccumulation

Not Available

Mobility

Not Available

Other Adverse Effects Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused

Products

Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including the

Canadian Environmental Protection Act.

Section 14 - Transport Information

UN Number Not Regulated

UN Proper Shipping Name Not Regulated

Transport Hazard Class(es) Not Regulated

Packaging Group Not Regulated

Environmental HazardsNot listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

TDG

Other Secure containers (full and/or empty) with suitable hold down devises during shipment and

ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date

November 6, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution[®] initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

Advance Chemicals Ltd. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7

Phone: 1(306) 664 – 2522

Fax: 1(888) 281-8109

www.cleartech.ca

24 Hour Emergency Number - All Locations - 1(306) 664-2522