

CORNERSTONE COATINGS INC.

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MATERIAL SAFETY DATA SHEET

I CHEMICAL PRODUCT AND COMPANY NAME IDENTIFICATION

MANUFACTURER'S NAME: Cornerstone Industrial Consulting Ltd.

REGULAR TELEPHONE NO. (306) 369-2521

ADDRESS: Box 479, Bruno, SK, S0K 0S0

TRADE NAME: **ADVANCE C-35**

SYNONYMS: Acrylic

II COMPOSITION/INFORMATION ON INGREDIENTS

<u>MATERIAL OR COMPONENT</u>	<u>CAS NO.</u>	<u>%(optional)</u>
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HAZARD DATA

Xylene	001330207	38-51
Tert Butyl Acetate	540-88-5	35-49
2-methylpropan-2-ol	75-65-0	less than .5

None of the remaining components are considered a hazardous material or carcinogen (1910-1200 hazard communication (D)(4). Identity withheld as a trade secret.

III HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

Eye Contact: Causes moderate eye irritation. Effects of eye irritation are reversible.

Skin Contact: May cause mild skin irritation. Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.

Inhalation: May cause central nervous system effects. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Ingestion: High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).

IV FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for a least 15 minutes and get medical attention immediately after flushing.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

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

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to Physical: Treatment based on sound judgment of physician and individual reactions of patient.

V FIRE FIGHTING MEASURES

FLASH POINT: 13.0 C (55.4 F)

FLASHPOINT METHOD: Closed Cup

AUTOIGNITION TEMPERATURE: ~517.8C / 964.04F

FLAMMABLE LIMITS IN AIR, % LOWER 1.26% **UPPER** 6.88%

EXTINGUISHING MEDIA: Use dry chemicals, CO₂, Alcohol Foam, Water Spray

SPECIAL EXPOSURE HAZARDS: Do not use a solid stream of water. 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 vapors. Containers exposed to intense heat from fires should be cooled with water to prevent vapor 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 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. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

HAZARDOUS DECOMPOSITION/COMBUSTION MATERIALS (UNDER FIRE CONDITIONS): Carbon monoxide. Carbon dioxide.

SPECIAL PROTECTIVE EQUIPMENT: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: Not Available

HMIS RATINGS FOR THIS PRODUCT ARE: Not Available

VI ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONARY MEASURES: Wear appropriate protective equipment

ENVIRONMENTAL PRECAUTIONARY MEASURES: Prevent entry into sewers or streams, dike if needed. Consult local authorities.

PROCEDURE AND CLEAN UP: 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.

VII HANDLING AND STORAGE

HANDLING: 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 personal protective equipment.

STORAGE: Store in cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store closed drums with bung in up position. Keep containers tightly closed. Store in accordance with good industrial practices. Attacks some types of rubber, plastics and coatings. Confirm suitability of any material before using. Recommended container material: Stainless steel.

VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Use explosion proof equipment.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.

Gloves: Butyl rubber gloves. Nitrile gloves. Teflon®

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected condition of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work station location. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities.

<u>INGREDIENTS</u>	<u>EXPOSURE LIMIT - ACHIG</u>	<u>EXPOSURE LIMIT - OSHA</u>	<u>IMMEDIATELY DANGEROUS TO LIFE OR HEALTH - IDLH</u>
Acetic acid, tert-butyl ester	200 ppm TLV-TWA	200 ppm TWA 950 mg/m ³ TWA	1500 ppm
2-methylpropan-2-ol	100 ppm TLV-TWA	100 ppm TWA 300 mg/m ³ TWA 150 ppm STEL 450 mg/m ³ STEL	1600 ppm

IX PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear

pH: N/A

Specific Gravity: ~0.862 @ 25C

Boiling Point: ~98C or 208F

Freezing/Melting Point: -62C/-79F

Vapor Pressure: ~41.5 mmHg @ 25C

Vapor Density: Not Available

%Volatile by Volume: Not Available

Evaporation Rate: ~1.9

Solubility: Insoluble

Molecular Weight: N/A

X STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: Keep away from heat, sparks and flame.

Materials to Avoid: Oxidizing agents. Acids. Alkalis. Plastics. Nitrates.

Hazardous Decomposition Products: Under hot, acidic conditions are isobutylene and acetic acid.

XI TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).

Skin Contact: May cause mild skin irritation. Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.

Inhalation: May cause central nervous system effects. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Eye Contact: Causes moderate eye irritation. Effects of eye irritation are reversible.

Additional Information: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Central nervous system depressant.

Acute Test of Product:

Acute Oral LD50: Not available

Acute Dermal LD50: Not available

Acute Inhalation LC50: Not available

Carcinogenicity

<u>Ingredients</u>	<u>IARC - Carcinogens</u>	<u>ACGIH - Carcinogens</u>
Acetic acid, tert-butyl ester	Not listed	Not Listed
2-methylpropan-2-ol	Not Listed	A4-Not classifiable as a human carcinogen

Reproductive Toxicity/Teratogenicity/Embryotoxicity/Mutagenicity: Not available

XII ECOLOGICAL INFORMATION

<u>Ingredients</u>	<u>Ecotoxicity-Fish Species Data</u>	<u>Acute Crustaceans Toxicity</u>	<u>Ecotoxicity-Freshwater Algae</u>
<u>Data</u>			
Acetic Acid, tert-butyl ester	LC50 (Pimephales promelas) 327 mg/L	Not Available	Not Available
2-methylpropan-2-ol	LC50 (Pimephales promelas) 6410 mg/L	Not Available	EC50 (Scenedesmus subspicatus) 1000 mg/L

XIII DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packing: Empty containers should be recycled or disposed of through an approved waste management facility.

XIV TRANSPORTATION INFORMATION

US DOT CLASSIFICATION

DOT Shipping Name: Butyl Acetates

DOT Hazardous Class: 3

DOT UN Number: UN1123

DOT Packing Group: II

DOT Reportable Quantity (lbs): Not Available

Marine Pollutant: No

TDG (CANADA)

TDG Proper Shipping Name: Butyl Acetates

Hazards Class: 3

UN Number: UN1123

Packing Group: II

Marine Pollutant: No

XV REGULATORY INFORMATION

US TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.
CANADIAN DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL). The Non-Domestic Substances List (NDSL) or exempt.

U.S. Regulatory Rules

<u>Ingredients</u>	<u>CERCLA/SARA - Section 302</u>	<u>SARA (311,312) Hazard Class</u>	<u>CERCLA/SARA - Section 313</u>
Acetic acid, tert-butyl ester	Not Listed	Listed	Not Listed
2-methylpropan-2-ol	Not Listed	Not Listed	Listed

California Proposition 65: Not listed

MA Right to Know List: Listed

New Jersey Right to Know List: Listed

Pennsylvania Right to Know List: Listed

WHMIS Hazardous Class:

B2 Flammable Liquids

D2B Toxic Materials

PREPARED BY: Cornerstone Industrial Consulting Ltd.

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DATE: January 2012 UPDATE