BRODA

SDS

WOOD TECH

SECTION 01: IDENTIFICATION

Product Name: Wood Tech

Product Form: Mixture

Other Means of Identifications: Natural Oil Deck Finish

Recommended Use: Wood Treatment and Protection

Restriction on Use: Not Known

Manufacturer's Name: CBR Products
Supplier's Name: CBR Products, 876 Cordova Diversion, Vancouver, BC V6A 3R3, Canada

Phone Number of Preparer: Local 1-604 254-3325

Emergency Telephone Number: Toll-free 1-888-311-5339

SECTION 02: HAZARD INGREDIENT

GHS Classification GHS Canada)

Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2A
Specific Target Organ Toxicity, Single Exposure; Respiratory Tract Irritation	Category 3
Hazardous to the Aquatic Environment, Long-term hazard	Category 3

Physical Hazards Not Known

GHS Label Elements, Including Precautionary Statements

Hazard Pictograms

Signal Word Warning

Hazard Statements
H316 Causes mild skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H402 Harmful to aquatic life

Precautionary Statements
Prevention:
P264 Wash hands (…) thoroughly after handling.
P265 Do not touch eyes.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P317 If eye irritation persists, get emergency medical help.
P332 + P317 If skin irritation occurs: Get medical help.
Storage:
P403 + P233 Store in a well-ventilated place. Keep containers tightly closed. Store above 10˚C / 50˚F.
Disposal:
P501 Dispose of contents/container in accordance with all Federal, Provincial, and /or local regulations including the Canadian Protection Act.

NFPA/HMIS Ratings (Scale 0-4)

Health: 1 Fire: 0 Reactivity: 0 Physical Hazards: Not Known

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Mixture

Name	CAS No.	W%
Ethylene Glycol n- Butyl Ether	111-76-2	0.70 – 0.90
Diethylene Glycol Mono Butyl Ether	112-34-5	0.70 – 0.90
2-Amino-2-methyl-1-propanol	124-68-5	0.40 – 0.60
3-Iodo-2-propynyl butylcarbamate	55406-53-6	0.80 – 1.00
Ammonia	1336-21-6	0.15 – 0.25
1-Methoxy-2-propanol	107-98-2	0.60 – 0.75
Sodium Tetraborate Anhydrous	1330-43-4	2.55 – 2.85

SECTION 04: FIRST-AID MEASURES

Description of First Aid Measures

First-aid measures after inhalation
If symptoms are experienced, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact
Remove all contaminated clothing. Rinse skin with water. Wash affected areas with soap and take shower. Wash clothing before reuse.

First-aid measures after eye contact
Immediately flush eyes with plenty of water for at least 15 – 20 minutes. If contact lenses are present, so not delay irrigation to remove lenses. Take care not to cross contaminate eyes. If irritation persists, Seek medical attention.

First-aid measures after ingestion
NEVER give anything by mouth if victim is rapidly losing consciousness. Rinse mouth with water.

Remove dentures if any. If material has been swallowed and the exposed person is conscious, give 2-4 glasses of water to drink to dilute the material. Do not induce vomiting unless directed to do so by medical personal. Call the poison control center or get medical attention immediately.

Most Important Symptoms and Effects (Acute and Delayed)
Potential Acute Health Effects:
Ingestion- Harmful if inhaled.
Eye contact- causes eye irritation.
Inhalation- May cause respiratory irritation
Skin contact- Causes mild skin irritation.

Over- exposure signs/symptoms
Ingestion- No known significant effects or critical hazards.
Eye contact- May cause watering eyes.
Inhalation- May cause respiratory irritation
Skin contact- Causes mild skin irritation.

Immediate Medical Attention and Special Treatment:
Notes to Physician- Treat Symptomatically. Contact poison treatment specialist immediately if large quantities have been swallowed or inhaled.

Specific Treatment- No specific treatment.

Protection of First- Aiders- No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing with water before removing it, or wear gloves.

SECTION 05: FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media
In case of fire, use water spray (fog), foam, dry chemical or CO2.

Unsuitable Extinguishing Media: Not known

Specific Hazards Arising from the Hazardous Products
The material is toxic to aquatic life. Water contaminated from this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous Thermal Decomposition Products- No specific data.

Special Protective Equipment, Precautions for Fire-Fighters.
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full-face respirator.

Further Information
Carbon monoxide, carbon dioxide and nitrogen oxides and other toxic and irritating chemicals may be formed on heating or in a fire.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions/Protective Equipment/Emergency Procedures

For non-emergency personnel: Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate protective equipment.
For emergency responders: If specialized clothing is required to deal with the spillage, Use personal protective equipment.
Environmental Precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil and air). May be harmful to the environment if released in large quantities. Collect Spillage.

Methods and Materials for Containment and Cleaning Up

Small spill- Immediately stop leak. Move containers from spill area. Dilute with water and mop up.
Large Spill- Immediately stop leak. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with a non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in a container for disposal according to local regulations.

Other Information: Dispose of materials or solid residues at an authorized site.

SECTION 07: HANDLING AND STORAGE

Precautions for Safe Handling

Protective measures- Ensure good ventilation of the work station. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe mist, vapors, spray. Do not get in eyes, skin or clothing. Do not swallow and avoid breathing vapor or mist.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage including any incompatibilities:
Store in accordance with local regulations. Store in original container protected from sunlight in a dry, cool and well- ventilated area, away from oxidizing materials food and drink. Store locked up. Keep containers tightly closed resealed until ready for use. Containers that have been open must be carefully resealed and kept upright to prevent leakage.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Ethylene Glycol n- Butyl Ether	ACGIH OSHA	TWA TWA	20 ppm 240 mg/m3
Diethylene Glycol Mono Butyl Ether	ACGIH	TWA	10 ppm
3-Iodo-2-propynyl butylcarbamate	ACGIH (TLV)	TWA	0.01 ppm
Ammonia	ACGIH (TLV) OSHA	TWA PEL	17 mg/m3 35 mg/m3
1-Methoxy-2-propanol	ACGIH	TWA	50 ppm

	ACGIH	STEL	100 ppm
Sodium Tetraborate Anhydrous	ACGIH ACGIH OSHA	TWA STEL TWA (Vacated)	2 mg/m3 6 mg/m3 10 mg/m3

Appropriate Engineering Controls

Engineering Control(s)
If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep workers exposures to airborne contaminants below any recommended statutory limits.
Environmental Exposure Control(s)
No information available.

Individual Protection Measures

Eye/Face protection- Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Safety glasses with side shields is preferred.

Skin protection- Chemical-Resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk indicates this is necessary. Personal protective equipment for the body and appropriate footwear should be selected based on the task being performed and should be approved by a specialist before handling this product.

Respiratory protection- Use a properly fitted, NIOSH approved respirator or an air-purifying or supplied air respirator with an approved standard if a risk assessment indicates this is necessary.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Light Amber
Odor	Slight Ammonia
Odor Threshold (ppm)	Not Known
Vapor Density (air = 1)	Not Known
Vapor Pressure (mmHg)	Not Known
Evaporation Rate (Butyl Acetate = 1)	No data available
Boiling Point	100°C / 212°F
Freezing Point	0°C / 32°F
Flash Point	No data available
Decomposition Temperature	No data available
Flammability	No data available
Density g/cm3	1.0

Volatile % By Weight	13.0
Ph	9.0 – 9.3
Solubility in Water	Dilutable in water
VOC (Less Water) g/L	<125

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available**.**

Chemical Stability: This product is stable**.**

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Avoid contact with strong oxidizers, mineral acids and bases. Protect from freezing.

Incompatible materials: No dangerous reactions known under normal conditions of use.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
Ethylene Glycol n- Butyl Ether	1,746 mg/kg Rat	2,000 mg/kg Skin Rat	-
Diethylene Glycol Mono Butyl Ether	3,305 mg/kg Rat	2,764 mg/kg Rabbit	-
3-Iodo-2-propynyl butylcarbamate	1,470 mg/kg Rat OECD Test Guideline 401	>2,000 mg/kg US EPA	-
Ammonia	350 mg/kg Rat	-	-
1-Methoxy-2-propanol	4,016 mg/kg Rat	>2,000 mg/kg Rabbit	>25.8 mg 6 hr Vapor Rat
Sodium Tetraborate Anhydrous	2,660 mg/kg Rat	>2,000 mg/m3 Rabbit	-

Chronic Toxicity

Carcinogenicity: Not considered carcinogenic to humans.
Irritation/Corrosion- There is no data available.
Sensitization- There is no data available.
Specific target organ toxicity (single exposure)- There is no data available.
Aspiration hazard- There is no data available.
Product/ingredient name- There is no data available.
Information on likely routes of entry- Dermal contact, eye contact, Inhalation.
Potential acute health effects:

Eye contact: Moderate eye Irritant.
Inhalation: Irritating to the nose and throat.
Skin contact: Can cause skin irritation

Symptoms related to the physical, chemical and toxicological characteristics:
See Section II

Delayed and immediate effects and also chronic effects from short and long term exposure:
Short term exposure:
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.

Long term exposure:
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects- No known significant effects or critical hazards.

Potential chronic health effects:
General- No known effects or critical hazards.
Carcinogenicity- No known effects or critical hazards.

Teratogenicity- No known effects or critical hazards.
Developmental effects- No known effects or critical hazards.
Fertility effects- No known effects or critical hazards.
Numerical measures of toxicity- No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Component	Toxicity to Algae EC50 (Scenedesmus Subspicatus)	Toxicity to Fish LC50 (Oncorhynchus Mykiss)	Toxicity to Daphnia and Other Aquatic Invertebrates (Daphnia Magna)
Diethylene Glycol Mono Butyl Ether	ErC50, alga Scenedesmus sp., static test, 96 h, Growth rate inhibition, > 100 mg/l, OECD Test Guideline 201 or Equivalent	Lepomis macrochirus (Bluegill sunfish), static test, 96 h, 1,300 mg/l, OECD Test Guideline 203 or Equivalent	EC50, Daphnia magna (Water flea), static test, 48 h, > 100 mg/l, OECD Test Guideline 202 or Equivalent
3-Iodo-2-propynyl butylcarbamate	static test ErC50 - Desmodesmus subspicatus (green algae) - 0.053 mg/l - 72 h (OECD Test Guideline 201)	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.067 mg/l - 96 h Remarks: (ECOTOX Database)	LC50 - Daphnia magna (Water flea) - 0.04 mg/l - 48 h Remarks: (ECOTOX Database)
1-Methoxy-2-propanol	Pseudokirchneriella subcapitata (green algae), static test, 7 d, Growth rate inhibition, > 1,000 mg/l, OECD Test Guideline 201 or	Oncorhynchus mykiss (rainbow trout), semi-static test, 96 h, >= 1,000 mg/l, OECD Test Guideline 203 or Equivalent	Daphnia magna (Water flea), static test, 48 h, 21,100 - 25,900 mg/l, OECD Test Guideline 202 or Equivalent

	Equivalent		
Sodium Tetraborate Anhydrous	Pseudokirchneriella subcapitata (green algae), static test, 2.6 – 21.8 mg/L 96 h	Limanda limanda 340 mg/L 96 h	LC50 Daphna magna 1,085 – 1,402 mg/L 48 h

Persistence and degradability:
3-Iodo-2-propynyl butylcarbamate: Biodegradation: 5 % Aerobic - Exposure time 28 d - Not readily biodegradable. (OECD Test Guideline 301B)
1-Methoxy-2-propanol: Biodegradation: 96 % Exposure time: 28 d Method: OECD Test Guideline 301E or Equivalent
Bioaccumulative potential: There is no data available
Mobility in soil:
Soil/water partition coefficient (KROC):
Ethylene Glycol n- Butyl Ether: n-octane/water: POW:6.46 log pow: 0.81
1-Methoxy-2-propanol: (KOC): 0.2 - 1.0 Estimated.
Other adverse effects: There is no data available

SECTION 13: DISPOSABLE CONSIDERATIONS

Waste Disposal: Dispose in accordance with current federal, state, provincial and local regulations.

Disposal methods- The generation of waste should be avoided or minimized whenever possible. Disposal of this product must be done in accordance with all federal and any regional local authority requirements. Care should be taken when handling empty containers that may have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil.

SECTION 14: TRANSPORT INFORMATION

UN Number: Not Regulated

Special Shipping Name: Not Applicable

PIN: Not Regulated

TDG: Not Regulated

DOT: Not Regulated, Not classified as a dangerous good under transport regulations

IMO: Not Regulated

ICAO: Not Regulated

ERAP: Not Regulated

SECTION 15: REGULATORY INFORMATION

OSHA (Occupational Safety and Health Administration) Flammability: Not Regulated

TSCA (Toxic Substances Control Act): All ingredients are listed within or exempted from US TSCA.

DSL (Domestic Substance List): All ingredients are listed within or exempted from Canadian DSL.

CEPA Status: All components of this product are listed on the domestic substance list

SECTION 16: OTHER INFORMATION

Regulatory Information: Skin eye and respiratory irritant.

WHMIS (Canada): Class D-2B: Material causing other toxic effects (Toxic).

HMIS (Hazardous Materials Information List): Rating:

Health	1
Flammability	0
Reactivity	0
PPE	0

0 = Minimum 1 = Slight 2= Moderate 3 = Serious 4 = Severe

Further Information: For industrial use only. Keep out of reach of children.

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SDS Prepared By: CBR Products Technical Department

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