

MATERIAL SAFETY DATA SHEET

Rhino Wood Repair - Rhino-PreTreat

FILE NO.:
MSDS DATE: January 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Rhino Wood Repair – Rhino-PreTreat

MANUFACTURER: Stellchem Inc.
ADDRESS: 244 Woolwich Street S.
Breslau, ON, Canada
NOB 1M0
TEL: (519) 649-1219
FAX: (519) 649-3286

EMERGENCY PHONE: Canada: 613-996-6666 (Canutec)
United States: 800-424-9300 (Chemtrec)

CHEMICAL FAMILY: Mixture.

PRODUCT USE: Surface pre-treatment, adhesion promoter and cleaner.
PREPARED BY: R. Pixner

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Sodium Tetraborate Pentahydrate	12179-04-3	Trade Secret
Boric acid	10043-35-3	Trade Secret

SECTION 3: HAZARDS IDENTIFICATION

Classification of substance/mixture:

Reproductive Toxicity Category 2
Serious Eye Damage/ Eye Irritation Category 2



Signal word: DANGER

Hazard statements:

H361: Suspected of damaging fertility or the unborn child
H319: Causes serious eye irritation

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/ wear eye protection.
P308 & P313: If exposed or concerned, Get medical advice/attention
P305 & P351 & P338 & P313: IF IN EYES, Rinse continuously with water for several minutes, Remove contact lenses if present and easy to do. Continue rinsing. Get medical advice/attention
P302 & P352: IF ON SKIN, Wash with plenty of water.
P501: Dispose contents/container in accordance with local regulation.

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

May be harmful if absorbed through skin or if swallowed. Severely irritating to eyes. Irritating to respiratory system and skin. May cause sensitization by inhalation and skin contact. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

ROUTES OF ENTRY: Dermal contact. Eye contact. Inhalation. Ingestion.

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POTENTIAL HEALTH EFFECTS

EYES: Causes irritation and can cause severe damage.

SKIN: Causes skin irritation. May cause desquamation. Can be absorbed through damaged skin causing symptoms similar to ingestion.

INGESTION: Causes gastrointestinal irritation. May cause nervous system depression (headache, nausea, vomiting, dizziness, abdominal pain, etc...) diarrhea, oliguria, anuria, erythema, macular rash, kidney damage, cardiovascular collapse, shock and death if ingested in large amounts. Toxic effects may be delayed.

INHALATION: Irritating to respiratory system. May cause sensitization by inhalation. If symptoms such as nose or throat irritation are observed, remove to fresh air. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

ACUTE HEALTH HAZARDS: See toxicological information (section 11)

CHRONIC HEALTH HAZARDS: Contains material that may cause target organ damage, based on animal data.

TARGET ORGANS: Contains material which may cause damage to the following organs: skin, eyes, kidneys.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

OVER EXPOSURE SIGNS/SYMPTOMS

INHALATION: Adverse symptoms may include respiratory tract irritation, coughing, wheezing, breathing difficulties and asthma

SKIN: Adverse symptoms may include irritation and redness.

EYES: Adverse symptoms may include irritation, redness and permanent eye damage.

CARCINOGENICITY: Not listed as carcinogen

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: Wash out mouth with water. Do not induce vomiting. Swallowing small amounts 15mL will not affect a healthy adult. For larger quantities, give two glasses of water. Seek medical advice/attention. Never give anything by mouth to an unconscious person. Get medical attention immediately

INHALATION: . If symptoms such as nose or throat irritation are observed, move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

PROTECTION OF FIRST AID PROVIDERS: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

NOTES TO PHYSICIANS: Gastric lavage with 5% sodium bicarbonate is suggested. This should be followed by saline catharsis. Assure adequate hydration. After ingestion or absorption into the bloodstream of large amounts (15 grams or more), symptoms may appear after 24-72 hours. Borates are readily dissipated through the urine (70% in the first 24 hours).

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

FLAMMABILITY OF PRODUCT: In a fire or if heated, a pressure increase will occur and the container may burst.

NFPA HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 1 **REACTIVITY:** 0
INSTABILITY: 1

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the surrounding fire.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include carbon dioxide, carbon monoxide and sodium oxides

SPECIAL EXPOSURE HAZARDS: The product is not sensitive to impact. The product is not sensitive to static discharge. Emits toxic fumes under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. 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 personal protective equipment (see section 8).

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 or air).

Methods for Cleanup

SMALL SPILL: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING: Put on appropriate personal protective equipment (see section 8). 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. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RECOMMENDED MONITORING PROCEDURES: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment

ENGINEERING MEASURES: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

HYGIENE MEASURES : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

HAND PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

EYE PROTECTION: Safety eyewear 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.
Recommended: splash goggles

SKIN PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Recommended: lab coat

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OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use nitrile gloves when handling product

PERSONAL PROTECTIVE EQUIPMENT PICTOGRAMS:



nitrile gloves



safety goggles



lab jacket

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

APPEARANCE: Liquid

ODOR: Sweet Odor

PHYSICAL STATE: Liquid

SOLUBILITY IN WATER: Soluble in the following materials: cold water, hot water

PERCENT SOLIDS BY WEIGHT: 25%

PERCENT VOLATILE: 75%

COLOUR: Clear/Yellowish

RELATIVE DENSITY: Weighted average: 1.05 (Water = 1)

VAPOUR PRESSURE: Not Available

VAPOUR DEENSITY: Not Available

FLAMMABLE LIMITS: Not Available

SECTION 9 NOTES: Store At Room temperature 70°F (21°F)

Keep Above 55°F (13°F)

DO NOT FREEZE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: The product is stable

CONDITIONS TO AVOID (STABILITY): No specific data.

MATERIALS TO AVOID: Strong oxidizing agents, acids, metallic salts, alkaloids, zirconium, reducing agents (alkali metals, metals hydrides).

HAZARDOUS DECOMPOSITION: Under normal conditions of storage and use, hazardous decomposition products should not occur.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

CONDITIONS OR REACTIVITY: Not flammable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE
Sodium Tetraborate Pentahydrate	LD50 Dermal	Rabbit	>2000mg/kg
	LD50 Oral	Rat	2660mg/kg
Boric acid	LD50 Dermal	Rabbit	>2000mg/kg
	LD50 Oral	Rat	2660mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ENVIROMENTAL EFFECTS: No known significant effects or critical hazards

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by- products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA CLASSIFICATION: Not available

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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for additional handling information and protection of employees.

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SECTION 14: TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

SECTION 15: REGULATORY INFORMATION

Classification of substance/mixture:

Reproductive Toxicity Category 2

Serious Eye Damage/ Eye Irritation Category 2

CANADIAN LISTS: Alberta Designated Substances: None of the components are listed.

Canadian ARET: None of the components are listed.

CEPA Toxic substances: None of the components are listed.

Canadian NPRI: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

CANADA DSL: Canada inventory: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION

REFERENCES: Manufacturers' Material Safety Data Sheets

OTHER SPECIAL CONSIDERATIONS: Not Available

DATE OF ISSUE: January 2018

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.