

MATERIAL SAFETY DATA SHEET

Rhino Wood Repair Putty B

FILE NO.:
MSDS DATE: May 2014

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Rhino Wood Repair Putty B

MANUFACTURER: Stellchem Inc.
ADDRESS: 244 Woolwich Street S.
Breslau, ON, Canada
N0B 1M0
TEL: (519) 649-1219
FAX: (519) 649-3286

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

CHEMICAL FAMILY: Amine/Amide

PRODUCT USE: Reactant with Rhino Wood Repair Putty A
PREPARED BY: R. Pixner

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Trade Secret	Trade Secret	Trade Secret
Trade Secret	Trade Secret	Trade Secret
Glycidyl Ether Mixture	68609-72-2	Trade Secret
Trade Secret	Trade Secret	Trade Secret

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

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.

POTENTIAL HEALTH EFFECTS

EYES: Severely irritating to eyes. Risk of serious damage to eyes.

SKIN: Harmful in contact with skin. Irritating to skin. May cause sensitization by skin contact.

INGESTION: Harmful if swallowed

INHALATION: Irritating to respiratory system. May cause sensitization by inhalation. 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.

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 and redness.

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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. Get medical attention immediately.

INGESTION: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately

INHALATION: 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: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: Closed cup: 220°C (428°F).

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: **Triethylenetetramine:** Incompatible with chloroformates.

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

SPECIAL EXPOSURE HAZARDS: **Triethylenetetramine** Incompatible with chloroformates.

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).

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.

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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.
Recommended: lab coat

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

PERSONAL PROTECTIVE EQUIPMENT PICTOGRAMS:



nitrile gloves

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

APPEARANCE: Putty

ODOR: Amine-like

PHYSICAL STATE: Solid

SOLUBILITY IN WATER: Very slightly soluble in the following materials: cold water, hot water

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: 0%

VOLATILE ORGANIC COMPOUNDS (VOC): 0%

COLOUR: Yellow

RELATIVE DENSITY: Weighted average: 0.78 (Water = 1)

VAPOUR PRESSURE: Highest known value: 0.001 kPa (0.01 mm Hg) (at 20 °C) (Triethylenetetramine).

VAPOUR DEENSITY: >1 (Air = 1)

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.

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MATERIALS TO AVOID: No specific data.

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

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

CONDITIONS OR REACTIVITY: Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE
Polyamide Resin	LD50 Dermal	Rabbit	5500 mg/kg
	LD50 Oral	Rat	1600mg/kg
N-aminoethylpipererazine	LD50 Oral	Rat	2880mg/kg
	LD50 Dermal	Rabbit	2980 mg/kg
Glycidyl Ether Mixture	LD50 Dermal	Rabbit	>4g/kg
	LD50 Rat	Rat	19.2g/kg
Triethylenetriamine	LD50 Dermal	Rabbit	805 mg/kg
	LD50 Oral	Rat	2500mg/kg
	LD50 Oral	Rabbitt	5500mg/kg

SECTION 11 NOTES:

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 for additional handling information and protection of employees.

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.	-	-	-		-

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SECTION 15: REGULATORY INFORMATION

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



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: May 2014

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