Rhino Linings®

SAFETY DATA SHEET **Part No.: GTSSA**

Date: June 18, 2021

PRODUCT NAME(S): GeoTech™ SS Activator

SECTION 1 – IDENTIFICATION

Manufacturer's Info:
Rhino Linings Corporation
9747 Businesspark Avenue
San Diego, CA, 92131

Information phone: (858) 450 0441
Emergency contact: CHEMTREC (800) 424 9300

Product Name: **GeoTech™ SS Activator**
Chemical Family: **Catalyst**
Recommended Use: **Industrial Applications**

SECTION 2 – HAZARD(S) IDENTIFICATION

OSHA Hazard Communication Standard:
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

GHS-Label Elements: **Signal Word:** DANGER

Pictogram(s):

GHS 05 GHS 08 GHS 07 GHS 09

Classification of the substance or mixture:

Hazard Class	Category	Hazard Statement Codes	Hazard Statements
Skin Corrosion/Irritation	1C	H314	Causes severe skin burns and eye damage
Serious Eye Damage/Eye Irritation	1	H318	Causes serious eye damage
Skin Sensitization	1B	H317	May cause an allergic skin reaction
Germ Cell Mutagenicity	2	H341	Suspected of causing genetic defects
Reproductive Toxicity	1B	H360	May damage fertility or the unborn child
STOT – Single Exposure	1	H370	Causes damage to organs
STOT – Repeated Exposure	1	H372	Causes damage to organs through prolonged or repeated exposure
Hazards to Aquatic Environment – Acute	1	400	Very toxic to aquatic life
Hazards to Aquatic Environment – Chronic	1	410	Very toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention:	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe dust, fume, gas, mist, vapors, spray.
	P264	Wash exposed area with plenty of water and soap thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P273	Avoid release to the environment.
	P280	Wear protective gloves, protective clothing, eye protection, face protection.
	P281	Use personal protective equipment as required.
Response:	P301+P330+P331	**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.
	P310	Immediately Call a POISON CENTER or doctor/physician.
	P303+P361+P353	**IF ON SKIN (or hair):** Immediately remove all contaminated clothing. Rinse skin with water/shower.
	P333+P313	**IF skin irritation or rash occurs:** Get medical advice/attention.
	P363	Wash contaminated clothing before reuse.
	P304+P340	**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P310	Immediately Call a POISON CENTER or doctor/physician.
	P305+P351+P338	**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor/physician.
	P308+P313	**IF exposed or concerned:** Get medical advice/attention.
	P391	Collect spillage.
Storage:	P405	Store locked up.
Disposal:	P501	Dispose of contents/container to an approved waste disposal facility.

Hazards not otherwise classified (HNOC): None known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	EC #	Concentration, %
Dibutyltin dilaurate	77-58-7	201-039-8	50 - < 100

SECTION 4 – FIRST-AID MEASURES

Description of First Aid measures:

Inhalation: Move person to fresh air. Consult a doctor/physician if feeling unwell.

Skin: Wash material off of the skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes immediately and wash them before reuse. Get medical advice/attention if irritation persists.

Eye: Immediately rinse with water for several minutes, especially under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Get medical advice/attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor/physician.

Most important symptoms/effects, acute and delayed: The most important known symptom and effects are described in Sections 2 and 11.

General advice for First Aid responders: Show this SDS to physician.

Note to physician: Specific antidotes or neutralizers do not exist. Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient. Application of corticosteroid cream has been effective in treating skin irritation.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: Do NOT use direct water stream. May spread fire.

Specific hazards arising from the chemical: In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded.

Special Protective Equipment and Precautions for fire-fighters: Wear NIOSH or OSHA approved self-contained breathing apparatus in positive pressure mode with full face piece and full protective gear. Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use protective equipment as described in Section 8. Keep unnecessary personnel away. Ensure adequate ventilation/exhaust extraction. Avoid breathing vapors or mist during clean up. Do not touch or walk through spilled material; spilled material may cause a slipping hazard.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Inform the relevant authorities if the product has caused environmental pollution. See Section 12 for more details.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, see Section 1 for the Emergency contact; for further disposal measures, see Section 13.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Avoid contact with eyes.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, dry and well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage stability: Stable under normal conditions.
Storage temperature: 60 - 90°F (16 - 32°C)

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Employees and consumers should be warned of health risks associated with product use. See Section 8 for additional information on hygiene measures.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters/Occupational exposure limit values: No component(s) are listed in the OSHA Occupational Chemical Database and OARS-WEEL Database.

Appropriate engineering controls: Use only with adequate ventilation. Provide process enclosures, local exhaust ventilation or other engineering controls to maintain recommended PEL. All equipment must conform to applicable electrical code. Use clean non-sparking tools.

Personal protective equipment:

Eye/face protection:

When directly handling liquid product, eye protection is required. Examples of eye protection include safety glasses and goggles. Contact lenses should not be worn when working with chemicals.

Skin/body protection:

Product easily penetrates the skin and may carry other dissolved chemicals into the body, therefore glove selection is very important. Butyl rubber, fluoroelastomer, neoprene, or thick (15 mil) latex gloves are recommended. Commonly used nitrile gloves may protect from brief contact, but have been found to degrade rapidly with exposure to the product. Body should be covered with appropriate clothing (apron, arm covers or full body suit) depending on the task being performed and the risks involved. Appropriate footwear should be also selected based on the task being performed and the risks involved.

Respiratory protection:

Use local or general ventilation to control exposures below applicable exposure limits. When ventilation is inadequate, use either an atmosphere supplying respirator or NIOSH or OSHA approved air-purifying respirator that is recommended for use in solvent- containing areas. Respirator must be properly fitted and its selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Additional Protective Measures: Educate and train employees in safe handling of this product. Follow all label instructions. As a general hygiene practice, wash hands and face after use. Clean water should always be readily available for emergency skin and eye washing. Emergency eyewash fountains and safety shower are recommended in close proximity as a matter of good work practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow liquid
Odor:	Mild
Odor threshold:	No test data available
pH:	No test data available
Melting point/ freezing point:	No test data available
Initial boiling point and boiling range:	No test data available
Flash point:	100°C (212°F) Closed Cup
Evaporation rate:	No test data available
Flammability (solid, gas):	No test data available
Upper/ lower flammability or explosive limits:	No test data available
Vapor pressure:	No test data available
Vapor density:	No test data available
Relative density:	No test data available
Solubility (water):	No test data available
Partition coefficient n-octanol/water:	No test data available
Auto-ignition temperature:	No test data available
Decomposition temperature:	No test data available
Viscosity:	No test data available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: None known.

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Strong heating.

Incompatible materials: Strong oxidizing and agents. Strong bases.

Hazardous decomposition products: None with proper storage and handling.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin and Eye Contact, Inhalation and Ingestion.

Symptoms of exposure:

Acute Toxicity:

Oral:
Not classified.

Dermal:
Not classified.

Inhalation:
Not classified.

Skin corrosion / irritation:
Causes severe skin burns and eye damage.

Serious eye damage / eye irritation:
Causes serious eye damage.

Specific target organ toxicity, single exposure:
Causes damage to organs.

Aspiration hazard:
Not classified.

Chronic Toxicity:

Respiratory and Skin Sensitizer:
May cause an allergic skin reaction.

Germ cell mutagenicity:
Suspected of causing genetic defects.

Carcinogenicity:
Not classified.

Reproductive toxicity:
May damage fertility or the unborn child.

Specific target organ toxicity, repeated exposure:
Causes damage to organs through prolonged or repeated exposure.

Medical conditions aggravated by overexposure:
No data available.

Toxicity test results:

The product itself has not been tested. Information given is based on data on the components and the ecotoxicology of closely related chemical analog to this product.

Components	Test Results
Dibutyltin dilaurate CAS # 77-58-7	Acute Toxicity Oral LD50 (Rat): >2,000 mg/kg (OECD Test Guideline 401) Dermal LD50 (Rabbit): >2,000 mg/kg (OECD Test Guideline 402) Inhalation: No data available. Skin corrosion/irritation (Rabbit): Corrosive. Causes severe skin burns and eye damage. Serious eye damage/eye irritation (Rabbit): Corrosive. Causes serious eye damage. Aspiration hazard: Not classified. Chronic Toxicity Respiratory or skin sensitizer: Skin sensitizer. Germ cell mutagenicity: In vitro - Negative (OECD Test Guideline 471). In vivo – No data available. Carcinogenicity: No carcinogens present or none present in regulated quantities. Reproductive: Dibutyltin compounds have shown reproductive and immunotoxic effects in laboratory animals. STOT-SE: Causes damage to organs. STOT-RE: Causes damage to organs through prolonged or repeated exposure. Abnormalities noted at necrospy of animals treated with 2000 mg/kg of dibutyltin dilaurate were haemorrhagic lungs, dark liver, dark kidneys, haemorrhage of gastric mucosa, haemorrhage of the large and small intestines, enlarged bile duct and behavioral and central nervous system effects. Decreased fertility was seen in hens following dietary administration equal to 78 mg/kg.

The products in question have been evaluated against the Hazardous Products Regulations (WHMIS 2015) and no additional classifications, ingredient disclosure or exposure limits are required for those regulations.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:

Acutely and chronically very toxic to aquatic life with long lasting effects. Avoid release to the environment.

Persistence and degradability:

Not known.

Bioaccumulative potential:

Not known.

Mobility in soil:

Not known.

Other adverse effects:

Not known.

Ecotoxicity test results:

The product itself has not been tested. Information given is based on data on the components and the ecotoxicology of closely related chemical analog to this product.

Components	Test Results
Dibutyltin dilaurate CAS # 77-58-7	Acute Toxicity Fish LC50: No test data available. Invertebrates EC50: No test data available. Aquatic plants EC50: (Green algae), 72hrs, >1 mg/l Ecological Data Persistance and Biodegradability: No test data available. Bioaccumulation: No test data available. Mobility in soil: No test data available. Results of PBT and vPvB assessment: No test data available. Other adverse effects: Acutely and chronically very toxic to aquatic life with long lasting effects. Do not allow to enter soil, waterways or waste water canal.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal: The generation of waste should be avoided or minimized wherever possible. Do not discharge into sewer system. Bacterial decomposition during wastewater treatment can result in the release of dimethyl sulfide (a volatile substance with a strong offensive odor). Spill cleanup residues may be subject to RCRA storage and disposal requirements. Dispose waste in compliance with local, state and federal regulations via licensed waste disposal contractor. Preferred method of disposal is burning in a chemical incinerator equipped with an afterburner and scrubber.

Container disposal: Even after emptying, container may retain residues. Do not heat or cut empty container with electric or gas torch since highly toxic vapors and gases can be formed. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed through licensed contractor in accordance with government regulations.
This material and its container must be disposed of in a safe way.

SECTION 14 – TRANSPORT INFORMATION

	Land transport, U.S. DOT	Sea transport, IMDG:	Air transport, IATA/ICAO:
UN/NA Number:	UN 1760	UN 1760	UN 1760
UN/NA Proper Shipping Name:	Corrosive liquid, n.o.s. (Dibutyltin dilaurate)	CORROSIVE LIQUID, N.O.S. (Dibutyltin dilaurate)	Corrosive liquid, n.o.s. (Dibutyltin dilaurate)
Transport Hazard Class:	8	8	8
Packing Group:	III	III	III
Hazard Label:	8	8	8
Special Instructions:	Marine Pollutant: Yes ERG Code: 154	Marine Pollutant: Yes EmS Code: F-A, S-B Remarks: Clear of living quarters.	Packing Instruction (Cargo): 856 Packing Instruction (Passenger): 852 Environmentally Hazardous: Yes Remarks: ERG Code 8L

Special precautions for user: The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

U.S. Toxic Substances Control Act:

None present or none present in regulated quantities.

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:

None present or none present in regulated quantities.

SARA Section 311/312 Hazard Categories:

Refer to hazard classification information in Section 2.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:

None present or none present in regulated quantities.

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey, Pennsylvania or Rhode Island Right to Know Substance Lists:

- Dibutyltin dilaurate – CAS # 77-58-7

California Prop. 65 Components:
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. For more information, go to www.P65Warnings.ca.gov

NFPA Hazard Rating:

HEALTH	FIRE	INSTABILITY	SPECIFIC
3	1	0	
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe	(Flash Points) 0 = Will not burn 1 = Above 200°F 2 = Below 200°F 3 = Below 100°F 4 = Below 73°F	0 = Stable 1 = Unstable if Heated 2 = Violent Chemical Change 3 = Shock and Heat May Detonate 4 = May Detonate	ACID (Acid) ALK (Alkaline) COR (Corrosive) OXY (Oxidizer) ~~W~~ (Use No Water)

HMIS Hazard Rating:

HEALTH	FLAMMABILITY	REACTIVITY	PROTECTIVE EQUIPMENT
3 *	1	0	K
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe *Chronic Health Effect			K = Hood, Gloves, Protective Suit and Boots

Canada regulations/legislation:
Hazardous Products Regulations (HPR): This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the Hazardous Products Regulations (HPR).

Domestic Substance List (DSL)/Non-Domestic Substance List (NDSL): All ingredients are listed on the DSL/NDSL.

International Regulations/Inventories:
No additional data available.

SECTION 16 – OTHER INFORMATION

LEGEND

GHS	Globally Harmonized System
CAS	Chemical Abstracts Services
EC	European Community
EPA	Environmental Protection Agency
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute of Occupational Safety and Health
PEL	Permissible Exposure Limits
TLV	Threshold Limit Value
REL	Recommended Exposure Limit
TWA	Time-Weighted Average
STEL	Short-term exposure limit
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
COD / BOD	Chemical Oxygen Demand / Biological Oxygen Demand
PACs / PAHs	Polycyclic Aromatic Compounds / Polycyclic Aromatic Hydrocarbon Content
STOT, SE	Specific Target Organ Toxicity following Single Exposure
STOT, RE	Specific Target Organ Toxicity following Repeated Exposure
DOT	Department of Transportation
IMDG	International maritime dangerous goods code
IATA, ICAO	International Air Transport Association, International Civil Aviation Organization
TSCA	Toxic Substances Control Act
EPCRA	Emergency Planning and Community Right-to-Know Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act

CFR	Code of Federal Regulations
RQ	Reportable Quantity
EHS	Extremely Hazardous Substances
DSL	Domestic Substance List
WHMIS	Workplace Hazardous Materials Information System

Latest revision date: June 18, 2021 – New Product
Date of the previous revision: ---

Disclaimer: The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. **Rhino Linings Corporation** makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.