

SAFETY DATA SHEET
DERBIFLASH RS LIQUID THIXO



SECTION 1 IDENTIFICATION

Product Name Derbiflash RS Liquid Thixo
Recommended Use Rheology additive
Manufacturer Performance Roof Systems
Address 4821 Chelsea Avenue
Kansas City, MO 64130
Phone Number (800) 727-9872
Emergency Number (800) 424-9300 (CHEMTREC)

SECTION 2 HAZARDS

GHS Classification Skin Irritation: Category 2
Skin Sensitization: Category 1

Hazard Pictographs



Signal Word

WARNING

Hazard Statements

H317 - May cause an allergic skin reaction

Precautionary Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P362 - Take off contaminated clothing and wash before reuse
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear gloves/protective clothing/eye protection/face protection

Response

P301+P330+P331 - IF SWALLOWED: Rinse mouth; Do NOT induce vomiting;
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO₂), foam, dry extinguishing powder to extinguish

Storage

P403+P235 - Store in well-ventilated place. Keep cool
P405 - Store locked up.

Disposal

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

ABBREVIATION KEY

SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
4-Morpholinecarboxaldehyde	4394-85-8	30 - 60
lithium chloride	7447-41-8	5 - 10

Note: The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

SECTION 4 FIRST AID MEASURES

Eyes	If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.
Skin	Wash with plenty of soap and water. Remove all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention.
Inhalation	Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation. If breathing is difficult, give oxygen. Get medical attention.
First-Aid, Ingestion	Do not induce vomiting. Dilute with 1-2 glasses of water. Get medical aid. Never give anything by mouth to an unconscious person.
Symptoms, Acute & Delayed Immediate Medical Attention	Refer to Section 11 - Toxicological Information All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

SECTION 5 FIRE FIGHTING MEASURES

Hazardous Combustions	carbon oxides, nitrogen oxides, Hydrogen chloride gas, Lithium oxides.
Extinguishing Media	Universal foam, dry chemical powder, CO2 or sand
Firefighting instruction	Do not use a heavy water stream. Use standard procedure for chemical fires.
Explosion Hazard	Will not explode on mechanical impact. Cool closed containers exposed to fire with water spray.
Protection Gear	Do not enter fire area without proper equipment, including respiratory protection.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective clothing to avoid eye & skin contact. Ensure adequate ventilation.
Environmental Precautions	Avoid release into the environment. Report releases as required by local, state and federal authorities.
Method and Materials for Containment & Clean Up	Soak up spills with inert solids, such as clay or diatomaceous earth. Collect spillage and dispose of in an approved facility, see Section 13, Disposal Considerations.

SECTION 7 HANDLING AND STORAGE

Handling	Use this product with adequate ventilation. Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as described in Section 8.
Storage	Store in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use. Keep only in original container.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures/ Controls	Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
General Industrial Hygiene	Use good industrial hygiene practices in handling this material.
Environmental Exposure Controls	Follow best practice for site management and disposal of waste.

PERSONAL PROTECTIVE EQUIPMENT

Pictographs



Eyes/Face

Safety glasses with side shields

Follow the national guidelines concerning the use of protective eye wear.

Hand

Protective Gloves

Leather or cotton gloves may be worn to prevent skin contact and irritation.

Skin/Body

Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.

Inhalation

Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Pale yellow-brown
Odor	Characteristic
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	≈ 32°F (0 °C)
Melting/Freezing Point	≈ 471.2°F (244 °C)
Flash Point	≈ 244.4°F (≈ 118 °C)
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	≈ 1 hPa
Density	≈ 1.18 g/cm
Specific Gravity	No data available
Solubility in Water	Insoluble
Viscosity	≈ 3,800 mPa.s
VOC	< 20 g/l

SECTION 10 STABILITY AND REACTIVITY

Stability	Material is stable under advised storage and handling conditions
Reactivity	Avoid excessive heat
Incompatibility	Oxidizing agents.
Conditions to Avoid	No data available
Hazardous Polymerization	Will not occur
Hazardous Decomposition	No data available

SECTION 11 TOXICOLOGICAL INFORMATION

Component Analysis

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
4-Morpholinecarboxaldehyde	4394-85-8	>7,360 (rat)	>18,400 (rabbit)	5.319 4hr (rat)
lithium chloride	7447-41-8	>526 (rat)	N/A	5.57 4hr (rat)

POTENTIAL HEALTH EFFECTS

Eyes	
Acute (Immediate)	Conjunctivitis, irritation, tearing and burning
Chronic (Delayed)	Causes eye irritation.
Skin	
Acute (Immediate)	Irritation and inflammation. Allergic skin reaction may occur. Dermatitis
Chronic (Delayed)	Causes skin irritation
Inhalation	
Acute (Immediate)	May cause respiratory irritation.
Chronic (Delayed)	No data available
Ingestion	
Acute (Immediate)	Swallowing a small quantity of this material will result in serious health hazard
Chronic (Delayed)	No data available
Carcinogenic Effects	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
Reproductive Toxicity	Based on available data, the classification criteria are not met
Teratogenicity	Based on available data, the classification criteria are not met
Mutagenicity	Based on available data, the classification criteria are not met
Aspiration Hazard	Based on available data, the classification criteria are not met.
STOT Single Exposure	Based on available data, the classification criteria are not met.
STOT Repeated Exposure	Based on available data, the classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION

Eco toxicity

COMPONENT	CAS NUMBER	FISH LC50 (mg/L) 96 hrs	DAPHNA EC50 (mg/L) 48 hrs	ALGAE EC50 (mg/L) 72 hrs
4-Morpholinecarboxaldehyde	4394-85-8	>500 (Golden orfe)	>500 (Water flea)	>23,880 (algae)
lithium chloride	7447-41-8	>158 (Rainbow trout)	>249 (Water flea)	>400 (green algae)

ABBREVIATION KEY

LD50 = Lethal dose, 50 percent
EC50 = Effective concentration, 50 Percent
STOT = Specific Target Organ Toxicity

LC50 = Lethal concentration, 50 Percent
IARC = International Agency for Research on Cancer

SECTION 12 ECOLOGICAL INFORMATION

Persistence & Degradability No Data Available
Bioaccumulative potential No Data Available
Soil Absorption/Mobility No Data Available
General Notes Avoid release to the environment

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in a manner consistent with federal, state and local regulations. This includes pails containing uncured material. Pails with cured/hardened remains of product can be sent for recycling.
Recommendation Product mixed with hardener and fully cured is ecologically save and can be disposed to local refuse deposit or recycling facility.

SECTION 14 TRANSPORT INFORMATION

Classification (TDG & DOT) These products are not classified as dangerous goods according to international transport regulations.

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed
DSL Inventory Components are listed
CERCLA This material does not contain any components with a CERCLA RQ.
Sara 311/312 Categories Acute health Hazard; Chornic health hazard
Sara 313 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
Clean Air Act This product does not contain any hazardous air pollutants
CA Proposition 65 This product does not contain chemical known in the state of California to cause cancer, birth defects or reproductive harm.

Right to Know States

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
4-Morpholinecarboxaldehyde	4394-85-8	No	Yes	No	Yes	Yes	Yes
lithium chloride	7447-41-8	No	No	No	No	Yes	No

SECTION 16 OTHER INFORMATION

Preparation Date April 2020
Summary of Changes New product
Disclaimer The information and recommendations contained herein are to the best of DERBIGUM Americas' knowledge and belief, accurate and reliable as of the date issued. DERBIGUM Americas does not warrant or guarantee their accuracy or reliability, and DERBIGUM Americas shall not be liable for any loss or damage arising out of the use thereof.

ABBREVIATION KEY

TSCA = Toxic Substances Control Act
 CERCLA= Comprehensive Environmental Response, Compensation & Liability Act

DSL = Domestic Substances List (Canada)
 SARA = Superfund Amendments and Reauthorization Act

SECTION 16 OTHER INFORMATION

Preparation Date April 2020

Revision Date March 2022

Summary of Changes Branding Update

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