



Material Safety Data Sheet

Material Name: Rocky Mountain Stone Products Repel 10

MSDS No: 002

SECTION 1-PRODUCT AND COMPANY IDENTIFICATION

Product Name (s): Repel 10 Water Repellant

Rocky Mountain Stone Products
780 North 700 West
Salt Lake City, UT 84116

Emergency Contacts:

Rocky Mountain Stone Products
Tel: (801) 355-3221 (7:30am-5pm MST)

Health and Technical Contacts:

Health Issues & Technical Information (7:30am-5pm MST): (801) 355-3221
Product Information (7:30am-5pm MST): (801) 355-3221

SECTION 2-PHYSICAL DATA

	BOILING POINT F°	VAPOR PRESSURE (mm Hg)	VAPOR DENSITY (Air=1)	EVAPORATION RATE (Butyl Acetate=1)
Methylhydrogen Siloxane	ND	ND	ND	ND
Alkyl alkoxysilane	ND	ND	ND	ND
Ethyl Alcohol (hydrolysis by-product)	173°F	97.68 (68°F)	1.6	3.30

	SPECIFIC GRAVITY	SOLUBILITY IN WATER	APPEARANCE AND ODOR
REPEL 10	.996	100%	WHITE, LIQUID, ODORLESS



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SECTION 3-HAZARDS IDENTIFICATION

CHEMICAL NAME	(COMMON NAME)	CAS NO	NFPA CODE	ACGIH TLV/TWA	OSHA PEL/TWA
Methylhydrogen siloxane	Proprietary*	Proprietary*	1,0,0-	None Established	None Established
Alkyl alkoxysilane	Proprietary*	Proprietary*		None Established	None Established
Ethyl Alcohol (hydrolysis by-product)	Ethanol	64-17-5	1,3,0-	1000ppm	1000ppm

*Specific chemical identity withheld as trade secret pursuant to OSHA regulations. Hydrolysis by-products are present in the product as supplied in minute concentrations. These materials evolve slowly during curing.

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

EMERGENCY OVERVIEW

Repel 10® is a white, odorless liquid. Contact with the eyes or skin may result in irritation. Mist inhalation may cause irritation. Always wear appropriate personal protective equipment when using the product. Product evolves minute quantities of Hydrogen Gas and Ethyl Alcohol during storage or curing that can accumulate in the container headspace or confined work areas. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do Not Repackage.

Flash Point (Method): >212°F (ASTM D 3278)

Flammable Limits: NOT DETERMINED

Extinguishing Media: On large fires use dry chemicals, foam, or water spray. On small fires use carbon dioxide, dry chemical or water spray

Special Fire Fighting Procedure: NONE

Unusual Fire And Explosion Hazards: Although there is no flash point, flammable vapors of ethyl alcohol and hydrogen gas may accumulate in the headspace of the container when storage times of six months are exceeded.



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SECTION 5-HEALTH HAZARD DATE

Primary Routes of Exposure: Skin, eyes, ingestion, inhalation.

Carcinogen Information: Not Listed (OSHA, IARC, NTP)

Medical Conditions Aggravated by Overexposure: No applicable information found.

Effects of Overexposure: Irritation of the eyes. Long term, occupational overexposure by inhalation may cause injury to the liver.

Eye Contact: Irritation of the eyes. May produce an oil film causing brief, reversible dimness of sight.

Skin Contact: No toxic effects are expected under normal use conditions. Inhalation of aerosols may cause respiratory irritation.

Ingestion: Not expected in industrial/commercial use. On hydrolysis, this product has the potential to evolve potentially harmful ethyl alcohol.

EMERGENCY AND FIRST AID PROCEDURE

Eye Contact: Rinse thoroughly for 15 minutes, with large amounts of water, holding eyelids apart to ensure flushing of the entire eye surface. Get medical attention. If persistent irritation occurs, get medical attention.

Skin Contact: Wash exposed area with soap and water. Remove contaminated clothing. If persistent irritation occurs, get medical attention. Launder contaminated clothing before reuse.

Inhalation: No respiratory effects have been reported.

Ingestion: Call a physician, emergency room or poison control center for instruction on how to safely induce vomiting. If vomiting occurs, keep head below hips to prevent liquid from entering lungs. Never give anything by mouth to unconscious person. Get medical attention.

SECTION 6-REACTIVITY DATA

Stability: Relatively non-reactive, but will hydrolyze slowly at ambient temperatures to hydrogen and ethanol.

Conditions To Avoid: Heat, frost

Incompatibility (Materials To Avoid): Oxidizing material can cause a reaction. Water, alcohols, acidic or base materials, and many metals or metallic compounds, when in contact with this product, can liberate flammable hydrogen gas. Do not repackage, dilute, or alter this product.

Hazardous Combustion Or Decomposition Products: After long periods of time, small amounts of hydrogen gas and ethanol may be formed in the container headspace. Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decompositions products: Carbon oxide and traces of incompletely burned carbon compounds, Silicone dioxide, Nitrogen oxides, Hydrogen, Formaldehyde.



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SECTION 7-SPILL OR LEAK PROCEDURES

Spill, Leak, Waste Disposal Procedures: Wear appropriate protective safety equipment. Control spill with absorbent pads or broom. If necessary, apply granular or loose sorbent to spill. When absorbed, sweep or otherwise collect and dispose of properly. Floors may be slippery; care should be exercised to avoid falls.

Waste Disposal Methods: Dispose of in a manner approved for this material. As of this writing, the product is not classified as a hazardous waste, however federal regulations prohibits disposal of liquid materials of any kind in a sanitary landfill. Solidify cleanup residuals before disposal. As local and state regulations may vary, consult with appropriate state and local regulatory agencies or the sanitary landfill operator to ascertain proper disposal procedures. Empty containers must not be reused. Drain all liquid possible from the container before disposal in a sanitary landfill.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: Wear a NIOSH approved dust/mist respirator as necessary to avoid unnecessary inhalation of wind drift during application. Ventilate interior spaces during curing as minute quantities of ethanol and hydrogen may be evolved.

Ventilation: Mechanical local exhaust at point of use.

Protective Clothing: Chemically resistant gloves such as Nitrile, rubber, or PVC may be used.

Eye Protection: Safety glasses with side shields are recommended. Splash resistant goggles or a face shield should be used to prevent eye contact where wind-drift and excess atomization can pose a risk.

Other Protective Equipment: Access to an eyewash is recommended. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.133 and CFR 19120.132.

SECTION 9-SPECIAL PRECAUTIONS

Work Practices: Proper work practices and planning should be utilized to avoid contact with workers, passerby, and non-masonry surfaces. Do not atomize during application. Beware of wind drift. Set the PRODUCT DATA sheet and label for specific precautions to be taken during use. Wash hands before breaks and at the end of the shift. This product will continue to evolve vapor during and ethyl alcohol during curing. Continue ventilation as needed during curing. Curing is complete in 3-5 days.



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Precautions To Be Taken In Handling And Storage: Wear appropriate safety equipment and clothing Do not get in eyes, skin, or on clothing. Do not take internally. Avoid breathing mist. Never touch face with hands or gloves that may be contaminated with this product. Store in a cool, dry, well ventilated place. Keep container tightly closed when not dispensing product. Use care around spilled materials because it will be slippery.

Other Precautions: None Known.

SECTION 10-REGULATORY INFORMATION

Shipping: This product is not regulated for domestic or international shipment. Vented containers are not allowed in air transportation.

National Motor Freight Classification: #33880 sub 2

SARA 313 REPORTABLE:

Chemical Name	CAS	Upper bound Concentration % By Weight
NA	NA	NA

California Proposition 65: Warning: This product contains the following chemical known to the State of California to cause cancer, birth defect, or other reproductive harm.

ACETALDEHYDE: 75-07-0 <.01%

SECTION 10-DISCLAIMER

The information on the Material Safety Data Sheet has been compiled from data considered accurate. This data is believed to be reliable, but it must be pointed out that values for certain properties are known to vary from source to source. Unlimited Designs, Inc. expressly disclaims any warranty express or implied as well as any liability for any injury or loss arising from the use of this information or the materials described. This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the be precautions necessary for the safe handling and use of this product for his/her unique application. This data relates only to the specific material designated and is not to be used in combinations with any other material. Many federal and state regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize him or herself with all applicable regulations.