

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: Rapid Repair Mixing Liquid
Other Means of Identification: Product Code: CS RR ML

Recommended Product Use: Admixture for Cement Based Patching Materials
Restrictions on Use: None Known

Manufacturer/Importer/Supplier/Distributor Information:

Company: Con-Spec Industries Ltd.
Address: 9525 - 63 Avenue NW
Edmonton, Alberta T6E 0G2
Contact: Robert Lummerding
Telephone: 1 (780) 437-6136
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E-Mail: conspec@shaw.ca

Emergency Telephone: CANUTEC (613) 996-6666

SECTION 2. HAZARD(S) IDENTIFICATION

This Material is considered hazardous under the OSHA Hazard Communications Standards (29 CFR 1910.1200)

Physical Hazards: Not Classified
Health Hazards: Skin sensitizer Category 2

Label Elements:
Hazard Symbol:



Signal Word: Warning
Hazard Statement: H317: May cause an allergic skin reaction.

Precautionary Statement:

Prevention: P261: Avoid breathing dust /fume /gas /mist /vapours /spray. P280: Wear protective gloves/ protective clothing /eye protection /face protection. P281: Use personal protective equipment as required.

Response: P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water.

Storage: P404: Store in a closed container. Do not freeze.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Other Hazards Which do not Result in GHS Classification:
12.46% of the mixture consists of ingredient(s) of unknown toxicity

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Chemical Identity	CAS Number	Content in Percent (%)*
Acrylic / Styrene Acrylic Emulsion	Mixture	20-5
Ammonium Hydroxide	1336-21-6	<0.01

Composition comments: *All concentrations are percent by volume.

SECTION 4. FIRST-AID MEASURES

Inhalation: Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

Skin Contact: Wash skin with soap and water. Wash contaminated clothing before reuse.

Eye Contact: Do not allow victim to rub eye(s). Rinse eyes thoroughly with water for at least 15 minutes, including under eye lids. Seek medical attention.

Ingestion: Rinse mouth thoroughly. Drink plenty of water, and consult a doctor immediately.

Most Important Symptoms/Effects, Acute and Delayed: May cause skin and eye irritation.

Immediate Medical Attention and Special Treatment: Get medical attention if symptoms occur.

General Information: Good personal hygiene is essential. Always wash your hands after handling product.

SECTION 5. FIRE-FIGHTING MEASURES

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials. Dry chemical, CO₂, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this may spread the fire.

Specific Hazards Arising from the Chemical: During fire, gases hazardous to health may be formed.

Special Protective Equipment and Precautions for Firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special Fire Fighting Procedures: Use standard firefighting procedures and consider the hazards of other involved materials.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions,
Protective Equipment and
Emergency Procedures:**

Keep unnecessary personnel away. Ensure adequate ventilation, especially in confined areas.

**Methods and Material for
Containment and Cleaning
Up:**

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling:

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment.

**Conditions for Safe Storage,
Including any Incompatibilities:**

Keep container closed until ready for use. Store in original tightly closed container. Do not freeze. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters
Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
Ammonium hydroxide (vapour)	TWA (8 hr)	50 ppm 35 mg/m ³ PEL	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Ammonium hydroxide (vapour)	TWA (8 hr)	25 ppm 18 mg/m ³ TLV	US. ACGIH Threshold Limit Values (2011)
Ammonium hydroxide (vapour)	STEL (15 minutes)	35 ppm 27 mg/m ³	US. ACGIH Threshold Limit Values (2011)
Ammonium hydroxide (vapour)	REL (10 hr)	25 ppm 18 mg/m ³	NIOSH
Ammonium hydroxide (vapour)	STEL (15 minutes)	35 ppm 27 mg/m ³	NIOSH

Consult local authorities for provincial or state exposure limits.

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value.

TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. A4 = Not classifiable as a human carcinogen.

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

OEL = Occupational Exposure Limits. REL: Recommended Exposure Limit

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Appropriate Engineering Controls	Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapours and mist. Mechanical ventilation or local Exhaust ventilation may be required.
Individual Protection Measures, such as Personal Protective Equipment	
General Information:	Use personal protective equipment as required.
Eye Protection:	The use of safety goggles or face shield is recommended.
Skin Protection:	Wear gloves, boot covers and protective clothing impervious to water to prevent skin contact. Remove clothing and protective equipment that becomes contaminated and wash before reuse.
Respiratory:	Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when occupational exposure limits are exceeded.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State:	Liquid
Form:	Liquid
Colour:	Milky White
Odour:	Slight slight characteristic ammonia odour
Odour Threshold:	No information available.
PH:	7.5-9.5
Melting Point/Freezing Point:	~ 0°C (32°F)
Initial Boiling Point and Boiling Range:	~ 100°C (212°F)
Flash Point:	> 93°C (200°F)
Evaporation Rate:	Slower than Ether.
Flammability (solid, gas):	No.
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability limit - upper (%):	Not applicable.
Flammability limit - lower (%):	Not applicable.
Explosive limit - upper (%):	Not applicable.
Explosive limit - lower (%):	Not applicable.
Vapour Pressure:	No information available.
Vapour Density:	Vapours are heavier than air and may travel along the floor and in the bottom of containers.
Relative Density:	1.03
Solubility(ies)	
Solubility in Water:	Soluble.
Solubility (other):	No information available.
Partition Coefficient (n-octanol/water):	No information available.
Auto-ignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

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SECTION 10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Protect from freezing - product stability may be affected.
Incompatible Materials:	Strong acids. Strong bases.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Symptoms of Exposure:

- Inhalation:** In high concentrations, vapours, fumes or mists may irritate nose, throat and mucus membranes.
- Skin:** Moderately irritating to skin with prolonged exposure. May cause allergic skin reaction.
- Eyes:** Eye contact is possible and should be avoided. May cause eye irritation.
- Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

No information available.

Acute Toxicity / Effects:

- Ingestion:** No information available.
- Inhalation:** No information available.
- Skin Contact:** No information available.
- Eye Contact:** No information available.

Information on Toxicological Effects Acute Dose Effects

Numerical Measures of Toxicity:

General Product Information: No information available for the product.

Component Analysis - LD50/LC50

Ammonium hydroxide (1336-21-6): Oral LD50 Rat: 350 mg/kg

- Dermal:** No information available.
- Inhalation:** No information available.

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Repeated Dose Toxicity:	No information available.
Carcinogenicity:	No information available.
Germ Cell Mutagenicity:	
In vitro:	No information available.
In vivo:	No information available.
Reproductive Toxicity:	No information available.
Specific Target Organ Toxicity:	
Single Exposure:	No information available.
Repeated Exposure:	No information available.
Chronic Effects Prolonged or Repeated Exposure:	No information available.
Unknown Acute Toxicity:	12.46% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 12. ECOLOGICAL INFORMATION

Eco Toxicity:	Mixture contains an ingredient that is harmful to the environment. Ammonia is harmful to aquatic life at very low concentrations. Mixture consists of Ammonium Hydroxide (1336-21-6) at less than 0.01% by volume.
Ammonium Hydroxide (1336-21-6):	
Fish:	8.2: 96 h Pimephales promelas mg/L LC50 96h Western mosquitofish (Gambusia affinis) 15 mg/l Mortality LC50
Crustacea:	0.66: 48 h water flea mg/L EC50 0.66: 48 h Daphnia pulex mg/L EC50
Persistence and Degradability:	No Data Available
Bioaccumulation Potential:	No Data Available
Mobility in Soil:	No Data Available
Other Adverse Effects:	No Data Available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of Wastes:	Dispose of according to Federal, State, Provincial and Local regulations.
Contaminated Packaging:	Do not reuse container.

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SECTION 14. TRANSPORT INFORMATION

TDG: Not regulated as dangerous goods.

UN Shipping Name: Not Regulated

Classification: N/A

UN: N/A

Packing Group: N/A

SECTION 15. REGULATORY INFORMATION

WHMIS Classification: Not Regulated

Canada DSL/NDSL Inventory: All components in this product are listed or exempt from the Inventory.

SECTION 16. OTHER INFORMATION

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Version #: 1.0

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