Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015 Date of issue: 2019-07-26 Revision date: 2019-07-26 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product form	: Mixture
Product name	: RM-RILC
Product code	: Not available
1.2. Relevant identified uses of the	ne substance or mixture and uses advised against
Use of the substance/mixture	 Reference material for measurement of liquid chromatography retention indices, for laboratory use only
1.3. Details of the supplier of the	safety data sheet
National Research Council Canada 1411 Oxford Street Halifax, Nova Scotia, Canada B3H 3Z T 1-902-426-8281	National Research Conseil national de Council Canada
1.4. Emergency telephone number	er
Emergency number	: CANUTEC 1-613-996-6666
SECTION 2: Hazards identification	
2.1. Classification of the substan	ce or mixture
GHS classification	
Acute Toxicity 3 (Oral) Acute Toxicity 3 (Dermal) Acute Toxicity 3 (Inhalation) Eye Irritation 2A Reproductive Toxicity 1B Specific Target Organ Toxicity After S Specific Target Organ Toxicity After S	
2.2. Label elements	
GHS labelling Hazard pictograms (GHS)	HS02 GHS06 GHS07 GHS08
Signal word (GHS)	: Danger
Hazard statements (GHS)	: Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. May cause damage to organs.
Hazard statements (GHS) Precautionary statements (GHS)	or if inhaled. Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. May cause damage to

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

protection/face protection. Do not breathe dust/fume/gas/mist/vapours/spray. If exposed or concerned: Get medical advice/attention. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (by weight)
Methyl alcohol	(CAS-No.) 67-56-1	98.67
N-alkylpyridinium-3-sulfonates (NAPS)	(CAS-No.) Not available	0.07

SECTION 4. First aid massures					
SECTION 4: First aid measures					
4.1. Description of first aid measu	I.1. Description of first aid measures				
First-aid measures after inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical advice/attention.				
First-aid measures after skin contact	 In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists. 				
First-aid measures after eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention. 				
First-aid measures after ingestion	 If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth. Immediately call a POISON CENTER/doctor. 				
4.2. Most important symptoms and	d effects, both acute and delayed				
Symptoms/effects after inhalation	 Toxic if inhaled. May cause respiratory tract irritation. Vapors may cause narcosis with headache, difficulty breathing, lightheadedness, drowsiness, unconsciousness and possibly death. 				
Symptoms/effects after skin contact	: Toxic in contact with skin. May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Other symptoms are similar to those experienced through inhalation and ingestion.				
Symptoms/effects after eye contact	 Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. 				

EN (English)



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Symptoms/effects after ingestion	 Toxic if swallowed. May be fatal or cause blindness if swallowed. This material contains methanol, which, when ingested, may cause acidosis,
	ocular toxicity ranging from diminished visual capacity to complete
	blindness, and death. May cause stomach distress, nausea or vomiting. Ingestion may cause headache, dizziness, drowsiness, metabolic acidosis,
	coma, seizures.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Powder, water spray, foam, carbon dioxide.			
Unsuitable extinguishing media	: Do not use a heavy water stream.			
5.2. Special hazards arising from t	he substance or mixture			
Fire hazard	: Highly flammable liquid and vapour. Products of combustion may include, and are not limited to: oxides of carbon.			
Explosion hazard	: May form flammable/explosive vapour-air mixture.			
5.3. Advice for firefighters				
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back.			
SECTION 6: Accidental release meas	ures			
	ive equipment and emergency procedures			
General measures	: Eliminate sources of ignition. Use special care to avoid static electric charges. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.			
6.2. Methods and material for cont	ainment and cleaning up			
For containment	: Dike and contain spill. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).			
Methods for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.			
6.3. Reference to other sections				

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: Handle empty containers with care because residual vap flammable.	ours are
Precautions for safe handling	: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Do not swallow Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.	
Hygiene measures	: Launder contaminated clothing before reuse. Wash hand drinking, or smoking.	s before eating,
2019-07-26	EN (English)	3/8

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

7.2. Conditions for safe s	storage, including any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	 Keep locked up and out of reach of children. Keep container tightly closed. Keep cool. Store in a well-ventilated place. Store at approximately +4°C / +39.2 °F and in the dark.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Methyl alcohol (67-56-)		
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (ppm)	250 ppm	
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³	
OSHA	OSHA PEL (TWA) (ppm)	200 ppm	
IDLH US IDLH (ppm) 6000 ppm		6000 ppm	
NIOSH NIOSH REL (TWA) (mg/m ³) 260 mg/m ³		260 mg/m ³	
NIOSH NIOSH REL (TWA) (ppm) 20		200 ppm	
NIOSH NIOSH REL (STEL) (mg/m³) 325 mg/m³		325 mg/m ³	
NIOSH	NIOSH REL (STEL) (ppm)	250 ppm	
N-alkylpyridinium-3-sulfonates (NAPS) (Not available)			
ACGIH	Not applicable		
OSHA	OSHA Not applicable		
IDLH	Not applicable		
NIOSH	Not applicable		

8.2. Exposure controls	
Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	 Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	 In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	 Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

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SECTION 9: Physical and	chemical properties	
9.1. Information on bas	ic physical and chemical properties	
Physical state	: Liquid	
Appearance	: Clear. Colourless liquid.	
Colour	: Colourless	
Odour	: Slight alcohol	
2019-07-26	EN (English)	4/8

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Odour threshold	:	No data available
рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	64.7 °C (148.46 °F) (methanol)
Flash point	:	11 °C (51.8 °F) (methanol)
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	Highly flammable liquid and vapour.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Density	:	0.791991 g/mL
Solubility	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

10.5. Incompatible materials

Moisture. Acids. Acid chlorides. Acid anhydrides. Oxidizing agent. Alkali metals. Reducing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Toxic if swallowed, in contact with skin or if inhaled.

RM-RILC		
ATE CA (oral)	101.348 mg/kg bodyweight	
ATE CA (dermal)	300 mg/kg bodyweight	
2019-07-26	EN (English)	5/8



Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

RM-RILC	
ATE CA (vapours)	3.04 mg/L/4h
Methyl alcohol (67-56-1)	
LD50 oral rat	6200 mg/kg
LD50 dermal rabbit	15840 mg/kg
LC50 inhalation rat	22500 ppm (Exposure time: 8 h)
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: May cause damage to organs. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: Toxic if inhaled. May cause respiratory tract irritation. Vapors may cause narcosis with headache, difficulty breathing, lightheadedness, drowsiness unconsciousness and possibly death.
Symptoms/effects after skin contact	: Toxic in contact with skin. May cause skin irritation. Symptoms may includ redness, drying, defatting and cracking of the skin. Other symptoms are similar to those experienced through inhalation and ingestion.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: Toxic if swallowed. May be fatal or cause blindness if swallowed. This material contains methanol, which, when ingested, may cause acidosis, ocular toxicity ranging from diminished visual capacity to complete blindness, and death. May cause stomach distress, nausea or vomiting. Ingestion may cause headache, dizziness, drowsiness, metabolic acidosis coma, seizures.

: May cause long-term adverse effects in the aquatic environment.
28200 mg/L (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [flow-through])
> 100 mg/L (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and degradability

RM-	RILC	
Pers	istence and degradability	Not established.
123	Bioaccumulative notential	

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RM-RILC	
Bioaccumulative potential	Not established.

EN (English)



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Methyl alcohol (67-56-1)	
BCF fish 1	< 10
Partition coefficient n-octanol/water	-0.77

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.		
Additional information	: Handle empty containers with care because residual vapours are flammable.		

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG	
UN-No.(DOT/TDG)	: UN1230
Proper Shipping Name (DOT/TDG)	: Methanol
Class (DOT/TDG)	: 3 (6.1)
Hazard labels (DOT/TDG)	CLAMBLE LEQUID 3 CLAMBLE LEQUID 3 CLAMBLE LEQUID 0 6
Packing group (DOT/TDG)	: 11
Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

N-alkylpyridinium-3-sulfonates (NAPS)	CAS-No. Not available
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All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except for:

N-alkylpyridinium-3-sulfonates (NAPS)	CAS-No. Not available
---------------------------------------	-----------------------

Methyl alcohol (67-56-1)		
Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	5000 lb	
SARA Section 313 - Emission Reporting	1 %	

EN (English)



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

15.2 US State regulations

No additional information available

SECTION 16: Other information	
Date of issue	: 2019-07-26
Revision date	: 2019-07-26
Other information	: None.
Version #	: 1.0
Prepared by	: Nexreg Compliance Inc.

DISCLAIMER:

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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