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MSDS-E-RBR100L

MSDS Revision Date: 01/01/2007 Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 1. PRODUCT IDENTIFICATION CHEMICAL RESPONSE CARD: 01 Product Name: CaiKleen™ RBR, RBR100L **RESPONSE** (low odor formula) **TEAM PPE:** 1.2 Chemical Name: See ingredients listed in section 3 1.3 Synonyms: CaiKleen™ RBR, RBR100L WHMIS: 1 4 Trade Names: NA 1.5 Product Use Rubber Cleaner & Rejuvenator **HEALTH:** 1 1.6 Manufacturer's Name: CAIG Laboratories, Inc. FLAMMABILITY: 1 1.7 Manufacturer's 12200 Thatcher Court, Poway, CA 92064-6876 REACTIVITY: 0 Addres 1.8 Business Phone: +1 (800) 224-4123 PERSONAL PROTECTION: В 1.9 Emergency Phone: CHEMTREC +1 (703) 527-3887/+1 (800) 424-9300 1.10 Other Product Names: CaiKleen™ RBR, Pump Spray, 150 mL (Part No. RBR100PS-6) CaiKleen™ RBR, Oiler Pen, 6 mL (Part No. RBR100L-P6C) CaiKleen™ RBR, Dropper Bottle, 59 mL (Part No. RBR100L-2) CaiKleen™ RBR, Liquid, 354 mL (Part No. RBR100L-12) 2. HAZARD IDENTIFICATION 2.1 Hazard Identification Combustible Liquid. This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of NOHSC and ADG Code (Australia). Routes of Entry: Inhalation: NO Absorption: YES YES Ingestion: 2.3 Effects of Exposure: EYES: This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists SKIN: This product can cause mild, transient skin irritation with short-term exposure. INGESTION: If swallowed, no significant adverse health effects are anticipated. Ingestion can cause a laxative effect. If aspirated into the lungs, liquid can cause lung damage. INHALATION: No significant adverse health effects are expected to occur upon short-term exposure to this product. Aspiration of liquid into the lungs can cause lung damage. Symptoms of Overexposure EYES: Mild irritation, redness, and watering. Possible irritation, defatting, or dermatitis (rash), characterized by dry, scaling, red, itching, skin. SKIN: Laxative effects. Gastrointestinal discomfort, nausea and headache. INGESTION: INHALATION: May cause irritation to the upper respiratory system. Overexposure to sprays or mists may cause chemical pneumonitis. Acute Health Effects: EYES: Mild to moderate irritation, but will not injure tissue SKIN: Low toxicity. Frequent or prolonged contat may irritate the skin. Low toxicity. Laxative effects. Gastrointestinal irritation and nausea and headahe. INGESTION: INHALATION: Negligible. At elevated temperatures or through mechanical action, may form vapors, mist or fumes that may be irritation to the eyes, nose, throat and lungs. Chronic Health Effects: Contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects. 2.7 Target Organs None reported by the manufacturer. Toxicological Properties: None reported by the manufacturer.

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.



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Prepared to OSHA, ACC, ANSI, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 01/01/2007 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH - ppm OSHA - ppm OTHER % CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No.** PEL STEL **IDLH** TLV STEL PY8030000 ≤ 90.0 64742-30-9 235-183-3 MINERAL SEAL OIL 5 3 NA MIST 10 **CHLORINATED FATTY ESTER** 68440-29-9 NΑ 270-448-1 ≤ 15.0 NΑ NΑ NΑ NA NΑ d-LIMONENE 5989-27-5 GW6360000 227-813-5 ≤ 5.0 NΑ NΑ NΑ ΑN NΑ 4. FIRST AID MEASURES First Aid: **FYFS:** As a precaution remove contact lenses if worn and flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention. SKIN: Remove contaminated clothing. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash the skin with soap and water If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. INGESTION: Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product INHALATION: immediately remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration. 4 2 Medical Conditions Aggravated by Exposure: HEALTH 1 Personnel with pre-existing skin disorders should avoid repeated or prolonged contact **FLAMMABILITY** with this product. 1 REACTIVITY 0 PROTECTIVE EQUIPMENT В **EYES** 5. FIREFIGHTING MEASURES Flashpoint & Method: > 200 °F, Cleveland Open Cup (based on mineral seal oil) 5.2 Autoignition Temperature: NA Flammability Limits: 5.3 Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA This material can burn but will not readily ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point. Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorus, zinc and nitrogen. Also, depending upon the conditions of use, low concentrations of hydrogen sulfide can be released. Extinguishing Methods: Dry chemical, foam, carbon dioxide and water fog. 5.6 Firefighting Procedures Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boilover. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any

natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or

decomposition products and oxygen deficiencies



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6. ACCIDENTAL RELEASE MEASURES

6.1 Spills:

Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop spill or leak at source if safely possible. Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal protective equipment. Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for assistance and/or reporting requirements. For water spills, remove from surface by skimming or with suitable absorbents. If allowed by federal & provincial environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters. Consult an expert on disposal of recovered material. Ensure disposal on compliance with government requirements & secure conformity to local disposal regulations. Notify the appropriate federal & provincial authorities immediately. Take all additional action necessary to prevent & remedy the adverse effects of the spill.

7. HANDLING & STORAGE INFORMATION

7.1 Work & Hygiene Practices:

Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact. Avoid breathing vapors. Avoid direct skin contact.

7.2 Storage & Handling

Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices

7.3 Special Precautions:

Empty containers may contain product residues. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Ventilation & Engineering Controls

The use of mechanical dilution ventilation is recommended to maintain airborne concentrations below the recommended occupational exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 38°C) or is agitated.

8.2 Respiratory Protection:

Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

8.3 Eye Protection

Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125 °F (51 °C). Have suitable eye wash water available.

8.4 Hand Protection:

Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures.

8.5 Body Protection:

Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. Remove oil contaminated clothing. Launder oil contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded.



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		O DUVELCAL O CUEMICAL PROPERTIES		
	1	9. PHYSICAL & CHEMICAL PROPERTIES		
9.1	Density:	0.913 g/cm3 @ 15 °C		
9.2	Boiling Point:	NA ND		
9.3	Melting Point:	ND 10 (a bathle a state 10)		
9.4	Evaporation Rate:	< 1.0 (n-butyl acetate = 1.0)		
9.5	Vapor Pressure:	< 0.01 kPa		
9.6 9.7	Molecular Weight:	Amber Liquid, Citrus Odor		
9.7	Appearance & Color: Odor Threshold:	NA		
9.9	Solubility:	NA NA		
9.10	Ph	NA NA		
9.11	Viscosity:	NA NA		
9.12	Other Information:	ND ND		
7.12	Other information.			
		10. STABILITY & REACTIVITY		
10.1	Stability:			
	,	onditions of use (see section 7).		
10.2	Hazardous Decomposition Prod	· · · · · · · · · · · · · · · · · · ·		
	'	n monoxide, metal oxides, and trace hydrocarbons.		
10.3	Hazardous Polymerization:	monosido, motal ostatos, ana tido nyaroda bono.		
	Will not occur.			
10.4	Conditions to Avoid:			
10.4		en flames snarks high heat (>100 °F) or other heat sources, and provimity to incompatible substances		
10.5	Use or storage near open flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances. Incompatible Substances:			
10.5	· ·	s peroxides, nitrates, and chlorates.		
	July Oxigizers such as	s peroxides, mirates, and emorates.		
		11. TOXICOLOGICAL INFORMATION		
11.1	Toxicity Data:			
	This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.			
11.2	Acute Toxicity:			
	single and short-term r levels include lung inf	ed from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure flammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies to lower concentrations of mineral oil mists at or near current work place exposure levels produced not be effects.		
11.3	Chronic Toxicity:	ii onoda.		
	See section 2.6			
11.4	Suspected Carcinogen:			
	· -	ains less than 3% DMSO (dimethyl sulfoxide).		
11.5	Reproductive Toxicity:			
11.0		This product is not reported to produce reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans.		
11 4	Reproductive Toxicity:	mis product is not reported to produce reproductive effects in numans.		
11.6	Irritancy of Product:			
11 7	See Section 2.3			
11.7	Biological Exposure Indices:			
	NE			
11.8	Physician Recommendations:			
	Treat symptomatically.			
11.0				



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	12. ECOLOGICAL IN	NFORMATION		
12.1	Environmental Stability:			
	Analysis for ecological effects has not been conducted on this pro			
	or water may be harmful to human, animal, and aquatic life. Also products can be harmful or fatal to aquatic life and waterfowl.	o, the coating action assoc	ciated with petroleum and petroleum	
12.2	Effects on Plants & Animals:			
	There is no specific data available for this product.			
12.3	Effects on Aquatic Life:			
	Petroleum-based (mineral) lube oils will normally float on water. I large surface area. As a result, this oil layer might limit or eliminate			
	not removed, oxygen depletion in the waterway can result in a loss			
	contains phosphorus which is a controlled element for disposal in			
	known to enhance the formation of algae. Severe algae growth necessary to support marine life.	can reduce oxygen conte	ent in the water possibly below levels	
	Thecessary to support marine life.			
	13. DISPOSAL CON	SIDERATIONS		
13.1	Waste Disposal:	<u> </u>		
	Dispose of in accordance with federal, state or local regulations. Do	not dump into sewers, on the	he ground or into any body of water.	
13.2	Special Considerations:			
	NA			
	14. TRANSPORTATION	INFORMATION		
The ba	asic description (ID Number, proper shipping name, hazard class & di	ivision, packing group) is sho	own for each mode of transportation.	
	onal descriptive information may be required by 49 CFR, IATA/ICAO, I		·	
14.1	49 CFR (GND):			
110	NOT REGULATED			
14.2	iata (air): Not regulated			
14.3	IMDG (OCN):			
	NOT REGULATED			
14.4	TDGR (Canadian GND):			
	NOT REGULATED			
14.5	ADR/RID (EU):			
	NOT REGULATED			
	1E DECLII ATODY IA	IFODMANTION		
45. 1	15. REGULATORY IN	IFUKIVIATIUN		
15.1	SARA Reporting Requirements:	in a vo autro monte		
15.2	This product does not contain any chemicals subject to SARA report SARA Threshold Planning Quantity:	ing requirements.		
10.2	NA			
15.3	TSCA Inventory Status:			
	All chemical substances of this product are listed on the TSCA invent	tory or are otherwise exemp	t from inventory status.	
15.4	CERCLA Reportable Quantity (RQ):			
	This product has no CERCLA Reportable Quantity. However, release Center.	into a waterway may requi	ire reporting to the National Response	
15.5	Other Federal Requirements:			
	NA			
15.6	Other Canadian Regulations			
	This product has been classified according to the hazard criteria of			
	(CPR) and the MSDS contains all of the information required by			
	product are listed on the DSL/NDSL. None of the components of thi Substances List.	is product are listed on the	Priorities	
15.7	State Regulatory Information:		I	
-	NA			



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15. REGULATORY INFORMATION- continued

15.8 67/548/EEC (European Union) Requirements:

http://www.shipmate.com/

The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC. (Xi) Irritant . R: 42/43-48/20 - May cause sensitization by inhalation and skin contact. Harmful danger to health by prolonged exposure through inhalation. S: 2-29-36 - Keep out of the reach of children. Do not empty into drains. Wear suitable protective clothing.



	16. OTHER INFORMATION		
16.1	Other Information:		
	NA		
16.2	Terms & Definitions:		
	See last page of this MSDS.		
16.3	Disclaimer: This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.		
16.4	Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/	CAIG LABORATORIES, INC.	
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax	ShipMate* Dangerous Goods Training & Consulting	



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
CAS NO.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

FIRST AID MEASURES:

CPI	R	Cardiopulmonary resuscitation - method in which a person			
		whose heart has stopped receives manual chest			
		compressions and breathing to circulate blood and provide			
		oxygen to the body.			

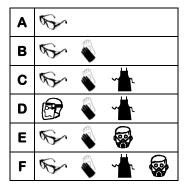
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

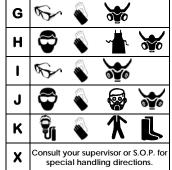
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

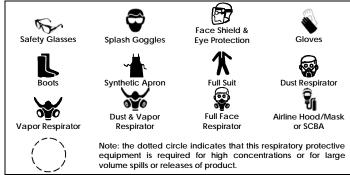
0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:







OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

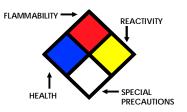
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-W -	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or TC, TC _o , LC _{Io} , & LC _o	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)

EC INFORMATION:

F.J.		*	*		×	X	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful