

RUBBER RENUE

408A-LIQUID

Safety Data Sheet

Section 1: Product and Company Identification

Product Identifier and Other Means of Identification

Product Name: Rubber Renue**SDS Code:** 408A-Liquid**Related Part #:** 408A-100ML, 408A-125ML, 408A-250ML, 408A-1L

Recommended Use and Restriction on Use

Use: Liquid for rejuvenating and reconditioning rubber**Uses Advised Against:** Not available

Details of Manufacturer or Importer

Manufacturer

MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

☎ 1-800-340-0772**☎** 1-905-331-1396**FAX** 1-800-340-0773**FAX** 1-905-331-2682**E-MAIL:** support@mgchemicals.com**E-MAIL:** info@mgchemicals.com**WEB** www.mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents
USA or CANADA: Call CHEMTREC ☎: **1-800-424-9300**

For emergencies involving dangerous goods; Collect 24/7
CANADA: Call CANUTEC ☎: **1-613-996-6666** or ***666** on cellular phones

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Section 2: Hazards Identification

Classification of Hazardous Chemical

WHMIS Classification



B2 – Flammable Liquid; D2A – Very Toxic Material (Possible carcinogen IARC: 2B);
D2B – Toxic Material (Skin/eye irritation)

GHS Categories

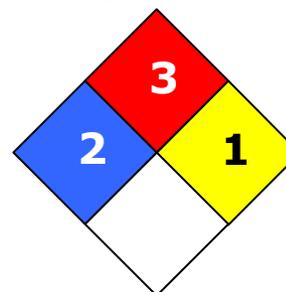
Criteria	Category	Signal Word	Pictograms	
Aspiration Hazard	1	Danger		
Carcinogenicity	2	Warning		
Eye irritation	2	Warning		
Skin Irritation	2	Warning		
Flammable liquid	3	Warning		
Environmental Hazard	Acute Aqua. Tox.	2	—	No Symbol mandated

Other Classifications

HMIS® RATING

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

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Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H304: May be fatal if swallowed and enters airways H351: Suspected of causing cancer
	H319: Causes severe eye irritation H315: Cause skin irritation
	H226: Flammable liquid and vapor
No Symbol Mandated	H401: Toxic to aquatic life
	Precautionary Statements
Prevention	P201 + P202: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P242 + P241 + P243: Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. P261 + P271: Avoid breathing mist/vapors/ spray. Use only outdoors or in well ventilated area. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/eye protection/face protection. P273: Avoid release to the environment.

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Precautionary Statements (Continued)	
Response	<p>P370 + P378: In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.</p> <p>P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.</p> <p>P331: Do NOT induce vomiting.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P303 + P361+ P364 +P352: IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water/shower.</p> <p>P332 + P337+ P313: If eye or skin irritation occurs or persists: Get medical advice/attention.</p> <p>P308 + P313: If exposed or concerned: Get medical advice/attention.</p>
Storage	<p>P403 + P235: Store in well ventilated place. Keep cool.</p> <p>P405: Store locked up.</p>
Disposal	<p>P501: Dispose of contents/container in accordance to local/regional/international regulations.</p>

Other Hazards

Not applicable

Section 3: Hazardous Ingredients

CAS #	Chemical Name	Wt%
1330-20-7	xylene (mixture)	60-70%
100-41-4	ethylbenzene	20-30%
119-36-8	methyl salicylate	15-30%

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Section 4: First Aid Measures

Exposure Condition

GHS Code: Precautionary Statement

IF IN EYES	P305
Symptoms	Immediate: <i>moderate to severe irritation, redness, pain</i>
Response	P351: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists	P313: Get medical advice/attention
IF ON SKIN	P302
Symptoms	Immediate: <i>irritation, dry skin, redness</i>
Response	P352: Wash with plenty of water. P362 + P364: Take off contaminated clothing and wash it before reuse.
If skin irritation occurs	P313: Get medical advice/attention
If exposed or concerned	P313: Get medical advice/attention
IF INHALED	P304 (<i>Not a likely route of exposure under normal use</i>)
Symptoms	Immediate: <i>irritation, headache, drowsiness, dizziness, cough</i> Delayed: <i>Deep and rapid breathing, nausea</i>
Response	P340: Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing.
If feeling unwell	P312: Call a POISON CENTRE/doctor
If exposed or concerned	P313: Get medical advice/attention
IF SWALLOWED	P301 (<i>Not a likely route of exposure under normal use</i>)
Symptoms	Immediate: <i>Irritation, burning sensation, abdominal pain, dizziness, drowsiness</i> Delayed: <i>Deep and rapid breathing, nausea</i>
Response	P330: Rinse mouth. P331: Do NOT induce vomiting. If conscious, give water to drink.
If feeling unwell	P312: Call a POISON CENTRE/doctor
If exposed or concerned	P312: Call a POISON CENTRE/doctor

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Section 5: Fire Fighting Measures

Auto-ignition Temperature	Not available	Flash Point ^{a)}	27 °C [81 °F]	LFL [LEL] ^{b)}	1%
				UFL [UEL]	7%

In case of fire P370

Response P378: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.

Combustion Products Produces carbon oxides (CO, CO₂).

Fire-Fighter Wear self-contained breathing apparatus for fire fighting

General Information Vapors may accumulate in low-lying areas. Flashback along vapor trail may occur. Material may float and ignite on surface of water.

a) Supplier value for the component with the lowest know flash point

b) LFL = Lower Flammability [or Explosion] Limit (in volume %);
UFL = Upper Flammability [or Explosion] Limit (in volume %)

Section 6: Accidental Release Measures

Personal Protection See Section 8. Avoid breathing the mist/vapors.

Containment Remove all sources of ignition.

Contain with inert absorbent (such as soil, sand, vermiculite).

Cleaning Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe up further residue with paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.

RECOMMENDATION: Use a grounded stainless steel or carbon steel container.

Disposal Dispose of spill waste according to Section 13.

RUBBER RENUE**408A-LIQUID****Section 7: Handling and Storage****Prevention**

P201 + P202: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P242 + P241 + P243: Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

P260 + P271 + P284: Avoid breathing mist/vapors/spray. In cases of inadequate ventilation wear respiratory protection.

P270: Do not eat, drink, or smoke when using this product.

RECOMMENDATION: Protect from excessive high heat. Do NOT process in a fashion that causes mist or fumes.

Handling

P280: Wear protective gloves/clothing/eye protection.

RECOMMENDATION: Wear butyl rubber, latex, neoprene, or other impervious gloves with breakthrough time greater than intended use period.

P264: Wash hands thoroughly after handling.

Storage

P405: Store locked up.

RECOMMENDATION: Keep in a dry and clean area, away from incompatible substances.

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Section 8: Exposure Controls/Personal Protection

Routes of Entry

Eyes, ingestion, inhalation, and skin

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
xylene	ACGIH	100 ppm	150 ppm
	U.S.A. OSHA PEL	100 ppm	150 ppm
	Canada AB	100 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON	100 ppm	150 ppm
	Canada QC	100 ppm	150 ppm
ethylbenzene	ACGIH	100 ppm	125 ppm
	U.S.A. OSHA PEL	100 ppm	125 ppm
	Canada AB	150 ppm	200 ppm
	Canada BC	20 ppm	—
	Canada ON	100 ppm	125 ppm
	Canada QC	100 ppm	125 ppm

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH², OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database¹ of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.
a) Limit for iron salts, soluble as Fe

Engineering Controls

Ventilation

Keep airborne concentrations below exposure limits.

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RUBBER RENUE**408A-LIQUID****Personal Protective Equipment****Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection (side shields).

Skin Protection

Use of protective gloves chemically resistant gloves.

For incidental exposure, you may use nitrile gloves.

For prolonged exposure, use polyvinyl alcohol (PVA) or Viton gloves and aprons.

Respiratory Protection

If exposed to vapors above the exposure limit or mist, wear respirator such as a half-mask respirator.

RECOMMENDATION: Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

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Section 9: Physical and Chemical Properties

Physical State	Liquid	Appearance	Clear, orange tint
Odor	Aromatic	Odor Threshold	Not established
pH	Not available	Specific Gravity	0.91
Solubility in Water	Insoluble	Freezing/Melting Point	Not available
Flash Point ^{a)}	27 °C [81 °F]	Vapor Pressure @ 20 °C	10 hPa [7.1 mmHg]
Boiling Point	>137 °C [279 °F]	Evaporation Rate	Not available
Lower Flammability Limit	1%	Upper Flammability Limit	7%
Auto-ignition Temperature	Not available	Decomposition Temperature	Not available
Viscosity @25 °C	Not available	Vapor Density	> 3.7 (Air = 1)
Partition Coefficient	Not established		

RUBBER RENUE**408A-LIQUID****Section 10: Stability and Reactivity**

Reactivity	Explosive reaction may occur with 1,3-dichloro-5,5-dimethyl-2,4-imidazolidindione (dichlorohydration).
Chemical Stability	Chemically stable at normal temperatures and pressures.
Possible Hazardous reactions	No hazardous polymerization
Conditions to Avoid	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
Incompatibilities	Strong oxidizing agents, strong bases
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

Section 11: Toxicological Information**Routes of Exposure**

Eyes, ingestion, inhalation, and skin

Symptoms Summary

Eyes	Causes moderate eye irritation, redness, and pain.
Skin	Causes moderate skin irritation, dry skin, and redness.
Inhalation	May cause dizziness, drowsiness, headache, nausea. May cause irritation of nose and throat.
Ingestion	May cause burning sensation and abdominal pain. (See also inhalation symptoms.)
Chronic	<p>Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness and discomfort.</p> <p>Prolonged and repeated exposure is possibly carcinogenic based on inhalation studies on rats. And chronic inhalation or ingestion of large doses may cause central nervous system depression.</p>

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Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
xylene	4,350 mg/kg Rat	>1,700 mg/kg Rabbit	5,000 ppm 4 h Rat	200 ppm Human
ethylbenzene	3,500 mg/kg Rat	>5,000 mg/kg Rabbit	35,500 mg/m ³ 2h Mouse	100 ppm 8h Human
methyl salicylate	887 mg/kg Rabbit	>5 000 mg/kg Rat ^{a)}	Not available	Not available

Note: Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)¹ data from supplier MSDS were also consulted.
a) Source Sigma-Aldrich SDS version 4.2, Date: 02/20/2013

Other Toxicological Effects

Skin corrosion/irritation	Causes skin irritation based on Draize tests on animals. Prolonged or repeated skin contact may cause dermatitis
Serious eye damage/irritation	Causes severe eye irritation based on Draize tests on animals.
Sensitization (allergic reactions)	No data available
Carcinogenicity (risk of cancer)	Ethylbenzene [100-414-4] IARC Group 2B: Possibly carcinogenic to humans ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans CA Prop 65: Listed as a carcinogen NTP: Not listed
Mutagenicity (risk of heritable genetic effects)	No data available
Reproductive Toxicity (risk to sex functions)	No data available
Teratogenicity (risk of fetus malformation)	No data available
STOT-single exposure	Xylene can affect the central nervous system by inhalation causing drowsiness or dizziness. <i>Continued on the next page</i>

RUBBER RENUE**408A-LIQUID****STOT-repeated exposure**

No data available

Aspiration hazard

Aspiration hazard because greater than 10% Cat 1 aspiration toxicants (xylene and ethylbenzene) are present and the mixture kinematic viscosity is $\leq 20.5 \text{ mm}^2/\text{s}$.

Section 12: Ecological Information

The ecotoxicity of the mixture was estimated by the calculation method using the summation of classified ingredients. The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

Xylene isomers are an acute category 2 environmental toxicant (with minimal LC50 of 2.5 mg/L for fish; EC50 1 mg/L 48 h Daphnia magna (water flea)).

Ethylbenzene is an acute category 2 environmental toxicant (with minimal LC50 of 4.2 mg/L for *Oncorhynchus mykiss* (rainbow trout); EC50 2.9 mg/L 48 h Daphnia magna (water flea)).

Acute Ecotoxicity

Category 3

GHS Code: Hazard Statement

H402: Harmful to aquatic life

P273: Avoid release to the environment

P391: Collect spillage

Chronic Ecotoxicity

Category 3

Data doesn't lead to classification under GHS.

Biodegradability

Biodegrades in soil and groundwater.

Other Effects

VOC (Regulated Volatile Organic Content) = 100% [908 g/L]

Section 13: Disposal Information

P501: Dispose of contents in accordance with all local, regional, national, and international regulations.

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Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); **USA CFR 49 Regulations** (Parts 100 to 185). **ADR** (European Agreement Concerning the International Carriage of Dangerous Goods by Road, and **ADN** (Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways).

Sizes 5 liter and under

Limited Quantity



Sizes greater than 5 liter

UN number: UN1307
Shipping Name: XYLENES
Class: 3
Packing Group: III
Marine Pollutant: No



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 10 liter and under

Limited Quantity



Sizes greater than 10 liters up to 60 L

UN number: UN1307
Shipping Name: XYLENES
Class: 3
Packing Group: III
Marine Pollutant: No



Sea

Refer to IMDG regulations.

Sizes 5 liter and under

Limited Quantity



Sizes greater than 5 liter

UN number: UN1307
Shipping Name: XYLENES
Class: 3
Packing Group: III
Marine Pollutant: No



Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

Section 15: Regulatory Information**Canada****Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

Health Canada

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

USA**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product contains ethylbenzene and xylene that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains ethylbenzene (CAS # 100-41-4; reportable quantity = 1000 lb) and xylene (CAS# 1330-20-7, reportable quantity = 100 lb), which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product contains ethylbenzene (CAS # 100-41-4), which is listed as a carcinogen.

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RUBBER RENUE**408A-LIQUID****Europe****RoHS**

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

WEEE

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

MSDS Prepared by Michel Hachey

Date of Issue 16 September 2013

Supersedes 05 December 2011

Reason for Changes: Change to OSHA-GHS compliant format and revision of properties.

Reference

1) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

2) ACGIH 2011 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2011).

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

GHS: Globally Harmonized System of Classification of Labeling of Chemicals

LC50 Lethal Concentration 50%

LCLo Lowest published lethal concentration

LD50 Lethal Dose 50%

N/A Not Applicable

N/E Not Estimated

PEL Permissible Exposure Limit

STEL Short-Term Exposure Limit

TCLo Lowest published toxic concentration

TWA Time Weighted Average

VOC Volatile Organic Content

WEEL Workplace Environmental Exposure Levels

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Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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