MATERIAL SAFETY DATA SHEET
1-RC750

Canutec 1-613-996-6666 (24 hours)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product identification :	1-RC750
Product name :	Rim Cleaner
Chemical family :	Mixture
Supplier / Manufacturer :	Auto-Chem Inc. 33 de Lyon Repentigny, QC, Canada J5Z 4Z3 Tel : 450-654-9292 Fax : 450-654-0633 www.autochem.com
Contact :	Jean Dagenais

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS	Percentage	Exposure limits
Sulfuric acid	7664-93-9	1 – 5	LD50 2140 mg/kg, rat, oral LC50 1mg/m3, rat TWA 1 mg/m3, ACGIH
Ethoxylated alcohols C10-14	66455-15-0	1 – 5	No data.
Ethoxylated alcohols C10-16	68002-97-1	1 – 5	LD50 1840 mg/kg, rat, oral LD50 >2000 mg/kg, rabbit, dermal LC50 5.7 mg/l, rat
Glycol ether EB	111-76-2	1 – 5	LD50 470 mg/kg, rat, oral LD50 220 mg/kg, rabbit, dermal CL50 450 ppm, rat

3. HAZARDS IDENTIFICATION

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects :

Eye contact :	Liquid and vapour can cause an irritation or burn of the cornea.
Skin contact :	Liquid and vapour can cause burns which may not be immediately be painful or visible. Can cause burns in case of prolonged contact.
Inhalation :	Can irritate the nose, throat and respiratory system. Symptoms can appear after several hours. Severe exposure can cause burns of the nose and throat, inflammation of the lungs and pulmonary oedema.
Ingestion :	Ingestion can cause severe burns of the mouth, throat and stomach and can be fatal.

Potential chronic health effects :

Eye contact :	Overexposure cans cause irreversible damages to the cornea.
Skin contact :	See above.
Inhalation :	See above.
Ingestion :	Harmful if swallowed.

4. FIRST AID MEASURES

Eyes : Rinse immediately with water or a saline solution for 15 to 20 minutes, lifting the upper and lower eyelids. Remove contact lenses. Obtain immediate medical attention.

Skin : In case of direct contact, rinse with running water 15 to 20 minutes. Remove contaminated clothing and wash with soap and water. Obtain medical attention if symptoms occur or if a large area is affected.

Inhalation : Remove person to fresh air. In case of respiratory failure, give artificial respiration. In case of respiratory distress, obtain medical attention.

Ingestion : Give milk or water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. In case of respiratory or cardiac arrest, start cardio-pulmonary resuscitation and obtain medical attention. Get immediate medical attention.

Note to physician: For burns over a large area, ingestion or severe inhalation, systemic effects can appear. Treat as chemical pneumonia.

5. FIRE FIGHTING MEASURES

Flash point : Does not apply.
Auto-ignition temperature : Does not apply.
Flammability limits – air (%) : LEL: UEL:
Extinguishing media : Suitable for cause of fire.
Protective equipment : Firefighters must wear adequate protective equipment and NIOSH/MSHA approved autonomous masks.
Hazardous combustion materials : Carbon oxides, sulphur oxides.
Recommendations: Move containers away from the source of fire if safe to do so. Do not disperse product with high pressure water jets. Dam water run-off. Cool containers with water.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protection equipment. Limit access of spill area to qualified personnel. Good ventilation is necessary. Do not touch spilled product. Prevent spilled product from reaching sewers or waterways. Stop or restrain leak if safe to do so.

Small spill : Contain and absorb product with a non-reactive absorbent material. Neutralize with a weak solution of sodium bicarbonate. Clean with water. Store residues in a closed container and identify for elimination.

Large spill : Contain and absorb product with a non-reactive absorbent material. Neutralize with a weak solution of sodium bicarbonate. Clean with water. Store residues in a closed container and identify for elimination.

7. HANDLING AND STORAGE

Handling : Do not breathe vapours or aerosol. Avoid contact with eyes or skin by wearing appropriate equipment. Avoid contact with incompatible materials. Wash carefully after handling the product. Clean contaminated clothing before reuse. Empty containers may contain residue. Eliminate according to current regulations.

Storage : Store in a cool and dry area, well ventilated and away from incompatible products. Keep from freezing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : Use local ventilation to control vapours and aerosols.

Personal protection equipment for routine handling :

Eye : Splash goggles.
Skin : Long sleeves, lab coat.
Gloves : Impermeable gloves.
Inhalation : If necessary, use NIOSH/MSHA approved mask.

Personal protection equipment for spills :

Eyes : Splash goggles.
Skin : Impermeable clothes.
Gloves : Impermeable gloves, chemical resistant.
Inhalation : NIOSH/MSHA approved mask. If in an enclosed space, an autonomous mask is recommended.

Note : These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Transparent liquid.
Coulour :	Colourless.
Odour :	Acid.
pH @ 1% :	1
Relative density (g/cm3) :	1.145
Boiling point :	100 C
Freezing point :	0 C
Vapour pressure :	Not determined.
Volatiles (weight) :	Not determined.
Solubility (water) :	Soluble.
VOC (%) :	Not determined.
Viscosity :	Not determined.

10. STABILITY AND REACTIVITY

Chemical stability : Stable.
Hazardous polymerization : None known.
Conditions to avoid : None known.
Materials to avoid : Reaction with some metals can cause the formation of flammable hydrogen gas. Alkalis, strong oxidants.
Dangerous decomposition products : Carbon oxides, sulphur oxides.

11. TOXICOLOGICAL INFORMATION

Ingredient	CAS	Percentage	Exposure limits
Sulfuric acid	7664-93-9	1 – 5	LD50 2140 mg/kg, rat, oral LC50 1mg/m3, rat TWA 1 mg/m3, ACGIH
Ethoxylated alcohols C10-14	66455-15-0	1 – 5	No data.

Ethoxylated alcohols C10-16	68002-97-1	1 – 5	LD50 1840 mg/kg, rat, oral LD50 >2000 mg/kg, rabbit, dermal LC50 5.7 mg/l, rat
Glycol ether EB	111-76-2	1 – 5	LD50 470 mg/kg, rat, oral LD50 220 mg/kg, rabbit, dermal CL50 450 ppm, rat

Potential acute health effects :

Eye contact : Liquid and vapour can cause an irritation or burn of the cornea.

Skin contact : Liquid and vapour can cause burns which may not be immediately be painful or visible. Can cause burns in case of prolonged contact.

Inhalation : Can irritate the nose, throat and respiratory system. Symptoms can appear after several hours. Severe exposure can cause burns of the nose and throat, inflammation of the lungs and pulmonary oedema.

Ingestion : Ingestion can cause severe burns of the mouth, throat and stomach and can be fatal.

Potential chronic health effects :

Carcinogenic effects: None known.
Mutagenic effects: None known.
Teratogenic effects: None known.

Target organs: One of the components of the product can cause changes in bones and articulations in humans.

12. ECOLOGICAL INFORMATION

Do not allow product or runoff to enter sewers or waterways. Some components may be harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste disposal method : Dispose according to municipal, provincial and federal regulations.
Contaminated packaging : According to municipal, provincial and federal regulations.

14. TRANSPORT INFORMATION

Regulatory Information	Shipping name	UN	Class	PG
TDG Classification	Corrosive liquid (Sulfuric acid)	2922	8 (6.1)	II

Limited quantity : 0.5 litre

15. REGULATORY INFORMATION

WHIMS : D1A Materials causing immediate and serious toxic effects.
D2B Materials causing other toxic effects.
E Corrosive materials.

DSL : All components of this product are either on the Domestic Substance List (DSL), the Non-Domestic Substance List (NDSL) or exempt.

TSCA : U.S. TSCA Inventory Status : All components of this product are either on the Toxic Substances Control Act Inventory List or exempt.

16. OTHER INFORMATION

Prepared by : Auto-Chem Inc. Date : Sept. 2015

Notice to reader :
All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Auto-Chem makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Auto-Chem's control and therefore users are responsible to verify this data under their own operation conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

MATERIAL SAFETY DATA SHEET
1-FC473

Canutec 1-613-996-6666 (24 hours)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product identification :	1-FC473
Product name :	Salt Remover Carpet and Fabric Cleaner
Chemical family :	Mixture
Supplier / Manufacturer :	Auto-Chem Inc. 33 de Lyon Repentigny, QC, Canada J5Z 4Z3 Tel : 450-654-9292 Fax : 450-654-0633 www.autochem.com
Contact :	Jean Dagenais

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS	Percentage	Exposure limits
Sodium xylenesulfonate	1300-72-7	1 – 5	LD50 7200 mg/kg, rat, oral
Sodium metasilicate	6834-92-0	1 – 5	LD50 770 mg/kg, rat, oral
Glycol ether EB	111-76-2	1 – 5	TLV TWA 20 ppm (ACGIH) PEL TWA 50 ppm (OSHA) REL TWA 5 ppm (NIOSH)
Ethoxylated alcohols chlorinated	61702-77-0	1 – 5	LD50 1100 mg/kg, rat, oral
EDTA	64-02-8	1 – 5	LD50 3030 mg/kg, rat ♂, oral

3. HAZARDS IDENTIFICATION

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects :

Eye contact :	Direct contact with eyes can cause a severe irritation, including pain, redness and reversible damages to the cornea.
Skin contact :	Can cause a severe irritation of the skin, including redness, inflammation and itching.
Inhalation :	Can cause an irritation of the respiratory tract, coughing, sneezing, breathing difficulties and irritation of the throat.
Ingestion :	Ingestion can cause irritation of the gastro-intestinal tract, including nausea and vomiting. Harmful if swallowed.

Potential chronic health effects :

Eye contact :	Overexposure can cause irreversible damages to the cornea.
Skin contact :	Prolonged or repeated exposure can cause allergic reactions.
Inhalation :	None known.
Ingestion :	Harmful if swallowed.

4. FIRST AID MEASURES

Eyes : Rinse immediately with water or a saline solution for 15 to 20 minutes, lifting upper and lower eyelids. Remove contact lenses. Obtain medical attention if irritation develops.

Skin : In case of direct contact, rinse with running water 15 to 20 minutes. Remove contaminated clothing and wash with soap and water.

Inhalation : Remove person to fresh air. In case of respiratory failure, give artificial respiration. In case of respiratory distress, obtain medical attention.

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. In case of respiratory or cardiac arrest, start cardio-pulmonary resuscitation and obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash point : Inflammable.
Auto-ignition temperature : Does not apply.
Flammability limits – air (%) : Does not apply.
Extinguishing media : Carbon dioxide, pulverized water. Dry chemical powder or water can be used to cool containers.
Protective equipment : Firefighters should wear complete protective equipment as well as autonomous breathing apparatus.
Hazardous combustion materials : Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protection equipment.

Small spill : Pick up for disposal. Clean residues with appropriate absorbent. Neutralize with a weak solution of acetic acid.

Large spill : Prevent spilled material from entering sewers or waterways. Dig if necessary. Pump (if possible) and store in appropriate container. Clean surfaces to prevent slippage. Neutralize with a weak solution of acetic acid.

7. HANDLING AND STORAGE

Handling : Safety glasses and chemicals resistant gloves.

Storage : Keep container closed. Keep from freezing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : General ventilation of work area is recommended.

<u>Personal protection equipment for routine handling :</u>
Eye : Use adequate protection - safety glasses or better.
Skin : Washing before meals and after work shift is adequate.
Gloves : Chemicals resistant gloves.
Inhalation : Not necessary under normal conditions.

<u>Personal protection equipment for spills :</u>
Eyes : Use adequate protection – safety glasses or better. Avoid contact with eyes.

Skin : Washing before meals and after work shift is adequate.
Gloves : Chemicals resistant gloves.
Inhalation : Not necessary under normal conditions.

Note : These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Transparent liquid.
Coulour :	Colourless.
Odour :	Sweet.
pH @ 1% :	10.5 – 12.0
Relative density (g/cm3) :	1.0 – 1.1
Boiling point :	100 C
Freezing point :	0 C
Vapour pressure :	Not available.
Volatiles (weight) :	Not determined.
Solubility (water) :	Soluble.
VOC (%) :	Not determined.
Viscosity :	Not available.

10. STABILITY AND REACTIVITY

Chemical stability : Stable.
Hazardous polymerization : None known.
Conditions to avoid : None known.
Materials to avoid : Strong acids, strong oxidants.
Dangerous decomposition products : Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Ingredient	CAS	Percentage	Exposure limits
Sodium xylenesulfonate	1300-72-7	1 – 5	LD50 7200 mg/kg, rat, oral
Sodium metasilicate	6834-92-0	1 – 5	LD50 770 mg/kg, rat, oral
Glycol ether EB	111-76-2	1 – 5	TLV TWA 20 ppm (ACGIH) PEL TWA 50 ppm (OSHA) REL TWA 5 ppm (NIOSH)
Ethoxylated alcohols chlorinated	61702-77-0	1 – 5	LD50 1100 mg/kg, rat, oral
EDTA	64-02-8	1 – 5	LD50 3030 mg/kg, rat ♂, oral

Potential acute health effects :
Eye contact : Direct contact with eyes can cause a severe irritation, including pain, redness and reversible damages to the cornea.
Skin contact : Can cause a severe irritation of the skin, including redness, inflammation and itching.
Inhalation : Can cause an irritation of the respiratory tract, coughing, sneezing, breathing difficulties and irritation of the throat.
Ingestion : Ingestion can cause irritation of the gastro-intestinal tract, including nausea and vomiting. Harmful if swallowed.

Potential chronic health effects :
Carcinogenic effects: None known.
Mutagenic effects: None known.
Teratogenic effects: None known.

12. ECOLOGICAL INFORMATION

Ingredient	CAS	Test	Species
EDTA	64-02-8	LD50 >100 mg/l	Pimephales promelas
		LD50 1030 mg/l	Lepomis macrochirus

13. DISPOSAL CONSIDERATIONS

Waste disposal method : Dispose according to municipal, provincial and federal regulations.
Contaminated packaging : According to municipal, provincial and federal regulations.

14. TRANSPORT INFORMATION

Regulatory Information	Shipping name	UN	Class	PG
Classification TMD	Corrosive liquid n.o.s. (Disodium trioxosilicate)	1760	8	III

15. REGULATORY INFORMATION

WHIMS : D2A Materials causing other toxic effects.
E Corrisive materials.

DSL : All components of this product are either on the Domestic Substance List (DSL), the Non-Domestic Substance List (NDSL) or exempt.

TSCA : U.S. TSCA Inventory Status : All components of this product are either on the Toxic Substances Control Act Inventory List or exempt.

16. OTHER INFORMATION

Prepared by : Auto-Chem Inc. Date : Sept. 2015

MATERIAL SAFETY DATA SHEET
1-WW189

Canutec 1-613-996-6666 (24 hours)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product identification :	1-WW189
Product name :	Wash and Wax
Chemical family :	Mixture
Supplier / Manufacturer :	Auto-Chem Inc. 33 de Lyon Repentigny, QC, Canada J5Z 4Z3 Tel : 450-654-9292 Fax : 450-654-0633 www.autochem.com
Contact :	Jean Dagenais

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS	Percentage	Exposure limits
Sodium Laureth Sulfate	68585-34-2	3 – 7	LD50 7700 mg/kg, rat, oral
Sodium Chloride	7647-14-5	1 – 5	LD50 3000 mg/kg, rat, oral

3. HAZARDS IDENTIFICATION

Potential acute health effects :

Eye contact :	Direct eye contact may cause temporary discomfort with mild redness and dryness.
Skin contact :	A single prolonged exposure (24 to 48 hours) causes no known adverse effects.
Inhalation :	No irritation to respiratory passages is expected from relatively short exposures of less than 8 hours.
Ingestion :	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

Potential chronic health effects :

Eye contact :	None known.
Skin contact :	None known.
Inhalation :	None known.
Ingestion :	None known.

4. FIRST AID MEASURES

Eyes : Rinse immediately with water 15 to 20 minutes. Remove contact lenses. Obtain medical attention if irritation develops.

Skin : In case of direct contact, rinse with running water 15 to 20 minutes. Remove contaminated clothing and wash with soap and water.

Inhalation : Remove person to fresh air. In case of respiratory failure, give artificial respiration. In case of respiratory distress, obtain medical attention.

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. In case of respiratory or cardiac arrest, start cardio-pulmonary resuscitation and obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash point :	Not flammable
Auto-ignition temperature :	Not applicable
Flammability limits – air (%) :	Not applicable
Extinguishing media :	Carbon dioxide (CO_2), water spray, according to the nature of the fire. Dry chemical powder or water can be used to cool containers.
Protective equipment :	Fire fighters should wear full protective clothing, including self contained breathing equipment.
Hazardous combustion materials :	Carbon dioxide, carbon monoxide, traces of incompletely burned carbon compounds.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protection equipment.

Small spill : Collect for elimination. Clean up remaining materials from spill with suitable absorbent.

Large spill : Prevent entry into sewers or streams. Dike if needed. Pump (if possible) and store in a suitable container. Clean surfaces to reduce risk of slippage. Final cleaning may require steam, solvents or detergents.

7. HANDLING AND STORAGE

Handling : Safety glasses and chemicals resistant gloves.

Storage : Keep container closed. Do not freeze.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls : General ventilation of work area is recommended.

<u>Personal protection equipment for routine handling :</u>

Eye :	Use adequate protection – safety glasses at a minimum.
Skin :	Washing before meals and at end of shift is adequate.
Gloves :	Chemicals resistant gloves.
Inhalation :	Not needed under normal conditions.

<u>Personal protection equipment for spills :</u>

Eyes :	Use adequate protection – safety glasses at a minimum.
Skin :	Washing before meals and at end of shift is adequate.
Gloves :	Chemicals resistant gloves.
Inhalation :	Not needed under normal conditions.

Note : These precautions are for room temperature handling. Use at elevated temperatures of aerosol spray applications may require added protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Liquid
Coulour :	Yellow
Odour :	Fruity

pH @ 1% :	9
Relative density (g/cm3) :	1.01
Boiling point :	100 C
Freezing point :	0 C
Vapour pressure :	Not available
Volatiles (weight) :	Not determined
Solubility (water) :	Soluble
VOC (%) :	< 4%
Viscosity :	Not available

10. STABILITY AND REACTIVITY

Chemical stability :	Stable.
Hazardous polymerization :	No.
Conditions to avoid :	None known.
Materials to avoid :	Strong oxidizers, acids.

Dangerous decomposition products : Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Ingredient	CAS	Percentage	Exposure limits
Sodium Laureth Sulfate	68585-34-2	3 – 7	LD50 7700 mg/kg, rat, oral
Sodium Chloride	7647-14-5	1 – 5	LD50 3000 mg/kg, rat, oral

Potential acute health effects :

Eye contact :	Direct eye contact may cause temporary discomfort with mild redness and dryness.
Skin contact :	A single prolonged exposure (24 to 48 hours) causes no known adverse effects.
Inhalation :	No irritation to respiratory passages is expected from relatively short exposures of less than 8 hours.
Ingestion :	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

Potential chronic health effects :

Carcinogenic effects:	Not classified as carcinogen.
Mutagenic effects:	None known.
Teratogenic effects:	None known.

12. ECOLOGICAL INFORMATION

Do not allow large quantities of the product or firefighting water runoff to enter sewers or waterways. Block sewers and ditches. Areas affected by a spill must be cleaned to their original condition or to the satisfaction of the authorities.

13. DISPOSAL CONSIDERATIONS

Waste disposal method :	Dispose according to municipal, provincial and federal regulations.
Contaminated packaging :	According to municipal, provincial and federal regulations.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

WHIMS : Not regulated.

DSL : All components of this product are either on the Domestic Substance List (DSL), the Non-Domestic Substance List (NDSL) or exempt.

TSCA : U.S. TSCA Inventory Status : All components of this product are either on the Toxic Substances Control Act Inventory List or exempt.

16. OTHER INFORMATION

Prepared by : Auto-Chem Inc. Date : Sept. 2015

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