

RUSFRE®RUSFRE
604 McGEACHIE DRIVE
MILTON, ONTARIO, L9T 3Y5**PRODUCT: RF 1009 395 METAL PRESERVER****SECTION 01: IDENTIFICATION**

Initial supplier identifier..... RUSFRE
604 McGeachie Drive
Milton
Ontario
L9T 3Y5

Product identifier..... RF 1009 395 METAL PRESERVER

Recommended use and restrictions on .. Paints.
use

Chemical family..... Acrylic coating.

NFPA rating..... Health: 2 Fire: 3 Reactivity: 0.

HMIS..... H: 2 F: 3 R: 0.

24 hour emergency number..... For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC);
IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.
** For medical emergencies contact your local poison control centre **.

SECTION 02: HAZARD IDENTIFICATION

Signal Word..... DANGER.

Hazard Classification..... Flammable Liquid 2. Aspiration Toxicity 1. Skin Irritation — Category 2. Eye Irritation — Category 2A. STOT SE 3. Carcinogenicity — Category 2. Reproductive Toxicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2.

Hazard Description..... H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients that are suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to the liver and kidneys through prolonged or repeated contact.

Prevention..... P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves and eye protection. P264 Wash hands thoroughly after handling. P260 Do not breathe mist, vapours, or spray. P271 Use only outdoors or in a well ventilated area.

Response P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 + P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse thoroughly with water and use safety shower. P301 + P310 If swallowed IMMEDIATELY CALL A POISON CONTROL CENTRE and follow instructions provided by the centre. P331 Do NOT induce vomiting. P302 + P352 - If on skin: wash with plenty of water. P332 + P313 - If skin irritation occurs get medical attention or advice. P362 + P364 - Take off contaminated clothing and wash before reuse. P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until medical help arrives. P337 + P313 - If eye irritation persists get medical attention. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P308 + P313 If exposed or concerned, get medical advice/attention. P314 - Get medical advice/attention if you feel unwell. P321 - For specific treatment see section 4 on this SDS.

Storage..... P403 + P235 Store in well ventilated area. Keep cool. P405 Store locked up.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

PRODUCT: RF 1009 395 METAL PRESERVER**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Mineral Spirits (Stoddard solvent)	8052-41-3	40-50
Hydrocarbon Resin	64742-16-1	20-25
Toluene	108-88-3	10-15
Acetone	67-64-1	7-13
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides	61789-72-8	<2
Carbon Black	1333-86-4	1-5

SECTION 04: FIRST-AID MEASURES

Eye contact.....	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Obtain medical attention.
Skin contact.....	Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. If irritation persists, seek medical attention.
Inhalation.....	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion.....	If ingestion is suspected, contact physician or poison control center immediately. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person.
Additional information.....	Treat victims symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media.....	"Alcohol" foam, CO ₂ , dry chemical. Water spray.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Oxides of carbon (CO, CO ₂). Toxic vapours may be evolved upon exposure to heat or open flame.
Special protective equipment and precautions for fire-fighters	Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Solvent vapours may be heavier than air and may build up and travel along the ground to an ignition source, which may result in a flash back to the source of the vapours. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Heat will cause pressure buildup and may cause explosive rupture.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill.....	Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%).
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SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Always adopt precautionary measures against build-up of static which may arise from appliances, handling and the containers in which product is packed. Avoid breathing vapours or mist. Ground handling equipment. Handle and open container with care. Employees should wash hands and face before eating or drinking. Keep away from heat, sparks, and open flame.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH

PRODUCT: RF 1009 395 METAL PRESERVER**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
Mineral Spirits (Stoddard solvent)	100 ppm CA ON: 100 ppm (TWA)	Not established	100ppm, 525 mg/m ³	Not established	Not established
Hydrocarbon Resin	Not established	Not established	Not established	Not established	Not established
Toluene	20 ppm CA ON: TWA: 20 ppm	Not established	200 ppm	500 ppm 10 minutes	100 ppm / STEL 150 ppm
Acetone	250 ppm TLV CA ON AB: 500ppm (TWA); 750ppm (STEL)	500 ppm	1,000 ppm	Not established	250 ppm
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides	Not established	Not established	Not established	Not established	Not established
Carbon Black	3 mg/m ³ CA ON: 3 mg/m ³ (Inhalable) TWA	Not established	3.5 mg/m ³	Not established	3.5 mg/m ³

Personal Protective Equipment

Eye/type.....	Liquid chemical goggles.
Respiratory/type.....	Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator when contaminant levels exceed the recommended exposure limits.
Gloves/ type.....	Chemical resistant gloves.
Clothing/type.....	Wear adequate protective clothes.
Footwear/type.....	Safety boots per local regulations.
Other/type.....	Emergency showers and eye wash stations should be available.
Appropriate engineering controls.....	Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Liquid.
Odour.....	Solvent odour.
Odour threshold (ppm).....	Not available.
pH.....	No data.
Melting / Freezing point (deg C).....	Not available.
Initial boiling point / boiling range (deg C).....	> 56 °C.
Flash point (deg C), method.....	-18°C. (estimated).
Evaporation rate.....	Not available.
Upper flammable limit (% vol).....	12.6.
Lower flammable limit (% vol).....	0.9.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	>1.
Relative Density (Specific Gravity).....	8.60 lbs/USG; 1.03.
Solubility.....	No data.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	> 232.
Decomposition temperature.....	Not available.
Viscosity.....	6000 - 6500 Brookfield #4 @ 20 rpm.
VOC (less water).....	1.92 lbs/USG.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability.....	Stable at normal temperatures and pressures.
Reactivity	Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents.
Conditions to avoid, including static discharge, shock or vibration	Keep away from heat. Incompatible with strong oxidizers.
Hazardous decomposition products.....	Oxides of carbon (CO,CO ₂).
Possibility of hazardous reactions.....	Will not occur under normal temperature and pressure.

PRODUCT: RF 1009 395 METAL PRESERVER**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Mineral Spirits (Stoddard solvent)	5500 ppm (4 hrs)	5000 mg/kg (oral, rat)
Hydrocarbon Resin	No Data	50,000 mg/kg (oral, rat)
Toluene	8000ppm (rat inhalation) 400ppm mouse (inhalation 24hr)	5,000 mg/kg (rat ora); 12,124 mg/kg (rabbit dermal)
Acetone	50,100 mg/m3 8 hours, rat	5,800 mg/kg (rat oral)
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, chlorides	No data	No data
Carbon Black	Not available	>10,000 mg/kg (oral rat) 3,000 mg/kg (dermal rabbit)
Route of exposure.....	Eye contact. Skin contact. Inhalation.	
Effects of acute exposure.....	Contact with skin can cause severe irritation. Contact with eyes may cause irritation. Ingestion may cause adverse health effects.	
Effects of chronic exposure.....	Breathing high concentrations of vapour may cause anesthetic effects and serious health effects. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.	
Carcinogenicity of material.....	IARC has classified Carbon Black as "Group 2B", possibly carcinogenic to humans, based on laboratory animal inhalation studies. Quartz (Crystalline Silica) is listed by IARC in Group 1 as a carcinogen. (in product at < 0.1%).	
Reproductive effects.....	Toluene is fetotoxic in rats and mice at maternally toxic levels. Prolonged and repeated exposure of pregnant animals (>1500 ppm) to Toluene have been reported to cause adverse fetal developmental effects.	

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... Do not allow to enter waters, waste water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Empty containers must be handled with care due to product residue. This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II - This product meets the limited quantity exemption when packaged in containers less than 5 Litres.
 IATA Classification (Air)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II .
 IMDG Classification (Marine)..... UN1139 - COATING SOLUTION - Class 3 - Packing Group II - EmS: F-E S-E.
 Marine Pollutant..... No.
 Proof of Classification..... In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. .

SECTION 15: REGULATORY INFORMATION

WHMIS 1988 classification..... B2, D2A, D2B.
 CEPA status..... On Domestic Substances List (DSL).
 TSCA inventory status..... All components are listed.
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.
 SARA Title III
 Section 302 - extremely hazardous None.
 substances
 Section 311/312 - hazard categories..... Immediate health, delayed health, fire hazard.
 Section 313..... Toluene.
 EPA hazardous air pollutants (HAPS) Toluene.
 40CFR63
 California Proposition 65..... *WARNING: This product contains a chemical known to the State of California to cause cancer. (Carbon black - airborne, unbound particles of respirable size). (Silica, crystalline (airborne particles of respirable size)). *WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. (Toluene).

PRODUCT: RF 1009 395 METAL PRESERVER

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com.
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 experience and recognized technical sources. To the best of our knowledge, it is believed
 to be correct as of the date of issue but we make no representations as to its accuracy or
 sufficiency and do not suggest or guarantee that any hazards listed herein are the only
 ones which exist. The hazard information contained herein is offered solely for the
 consideration of the user, subject to his own investigation and verification of compliance
 with applicable regulations, including the safe use of the product under every foreseeable
 condition. The 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.
 Telephone number:..... (800) 387-7981.
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 data sheet