



MARTRON INC. SAFETY DATA SHEET MARTRON RSS-1 MA

Section 1: Identification

Product Name: MARTRON RSS-1 MA
Product Number: MFC- 004034

Supplier Name: Martron Inc.
1394-A Walkup Ave.
Monroe, NC 28110
704-289-1934

Website: www.martroninc.com

Emergency Number: CHEMTREC 800-424-9300

Section 2: Hazard(s) Identification

GHS Ratings:

Corrosive to metals	1	Corrosive to metals
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1-hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity \geq 3, Iritis > 1.5
Organ toxin repeated exposure	2	Organ toxin single exposure 3 Transient target organ effects- Narcotic effects - Respiratory tract irritation Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases

GHS Hazards:

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H336: May cause drowsiness or dizziness.
H373: May cause damage to organs through prolonged or repeated exposure.

GHS Precautions:

P234: Keep only in original container.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands, and any exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P310: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P314: Get Medical advice/attention if you feel unwell.
P321: Specific treatment (see first aid treatment on SDS).
P363: Wash contaminated clothing before reuse.
P390: Absorb spillage to prevent material damage.
P301+P330+P331: If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405: Store locked up.
P406: Store in a corrosive resistant container with a resistant inner liner.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Signal Word:
DANGER



Section 3: Composition / Information on Ingredients

Chemical Name/CAS #	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Nitric Acid 7697-37-2 30 to 40%	2 ppm TWA; 5 mg/m ³ TWA	4 ppm STEL 2 ppm TWA	NIOSH: 2 ppm TWA; 5 mg/m ³ TWA 4 ppm STEL; 10 mg/m ³ STEL
Acetic Acid 64-19-7 20 to 30%	10 ppm TWA; 25 mg/m ³ TWA	15 ppm STEL 10 ppm TWA	NIOSH: 10 ppm TWA; 25 mg/m ³ TWA 15 ppm STEL; 37 mg/m ³ STEL

Section 4: First Aid Measures

Inhalation:

Remove victim from exposure. Contact physician if respiratory distress develops. If breathing is difficult, give oxygen.

Eye Contact:

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact:

Remove contaminated clothing. Wash skin with soap and water for at least 15 minutes. If irritation persists, get medical attention. Wash clothing separately and clean shoes before reuse.

Ingestion:

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control immediately. Never give anything by mouth to an unconscious person.

Section 5: Firefighting Measures

Flash Point: N/A

Extinguishing Media:

Use foam, dry chemical, or water spray to extinguish fire.

Specific Hazards Arising from the Chemical:

Nitric acid is an oxidizer & can ignite certain combustible and organic materials. Will react with many metals to generate highly flammable and explosive hydrogen gas.

Special Protective Equipment and Precautions for Firefighters Special Information:

As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Remove containers from fire if possible, without risk.

Section 6: Accidental Release Measures

Spill and Leak Procedures:

Use proper personal protective equipment. Neutralize with soda ash or lime. Pickup and place in a suitable container for proper disposal.

Section 7: Handling and Storage

Handling Procedures:

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

Storage Requirements:

Store containers in a cool, well ventilated place. Keep container closed when not in use.

Section 8: Exposure Control / Personal Protection

Chemical Name/CAS #	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Nitric Acid 7697-37-2	2 ppm TWA 5 mg/m ³ TWA	4 ppm STEL 2 ppm TWA	NIOSH: 2 ppm TWA; 5 mg/m ³ TWA 4 ppm STEL; 10 mg/m ³ STEL
Acetic Acid 64-19-7	10 ppm TWA 25 mg/m ³ TWA	15 ppm STEL 10 ppm TWA	NIOSH: 10 ppm TWA; 25 mg/m ³ TWA 15 ppm STEL; 37 mg/m ³ STEL

Engineering Controls:

Provide ventilation sufficient to maintain exposure below the recommended limits.

Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

Skin Protection:

Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

Eye Protection:

Wear safety glasses with side shields (or goggles) and a face shield.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Hygienic Practices:

Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties

Appearance:	Clear Liquid
Odor:	Unknown
Vapor Pressure:	Unknown
Odor Threshold:	Unknown
Vapor Density:	Unknown
pH:	Unknown
Density:	Unknown
Melting Point:	Unknown
Freezing Point:	Unknown
Solubility:	Soluble
Boiling Range:	Unknown
Flash Point:	Unknown
Evaporation Rate:	Unknown
Flammability:	Unknown
Explosive Limits:	Unknown
Specific Gravity:	1.192

Auto-Ignition Temperature: Unknown
Decomposition Temperature: Unknown
Viscosity: Unknown
Grams VOC Less Water: Unknown

Section 10: Stability and Reactivity

Chemical Stability:

STABLE

Incompatible Materials:

Keep away from organic materials, combustible materials, alkalis and metals. Oxidizers and reducers

Conditions to Avoid:

None known.

Hazardous Decomposition Products:

Carbon oxides. Decomposes with heat to produce oxides of nitrogen.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity:

Dermal Toxicity
LD50: 3,999mg/kg

Inhalation Toxicity
LC50: 36mg/L

Routes of Entry:

Inhalation
Ingestion
Skin contact
Eye contact

Target Organs:

Eyes
Skin
Respiratory System

Effects of Overexposure:

Emergency Overview:

Corrosive to eyes and skin. Harmful if swallowed. Inhalation may cause damage to the upper respiratory tract.

Acute Health Effects:

This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness. Corrosive to the skin. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Inhalation of mists of this product may cause severe irritation and burns to the respiratory tract.

Chronic Effects:

None known.

GHS Carcinogenicity:

Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.

Section 12: Ecological Information**Component Ecotoxicity:**

Acetic acid

96 Hr LC50 Pimephales promelas: 79 mg/L [static];

96 Hr LC50 Lepomis macrochirus: 75 mg/L [static]

48 Hr EC50 Daphnia magna: 65 mg/L [Static]

Section 13: Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14: Transportation Information

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any.

Section 15: Regulatory Information**CERCLA/SARA Hazardous Substances:**

64-19-7 Acetic Acid

7697-37-2 Nitric Acid

OSHA Process Safety Management Highly Hazardous Chemicals:

7697-37-2 Nitric Acid

U.S. Clean Air Act Toxic and Flammable Substances:

7697-37-2 Nitric Acid

SARA 313:

7697-37-2 Nitric Acid

TSCA 8(b) Inventory:

64-19-7 Acetic Acid

7697-37-2 Nitric Acid

Section 16: Other Information**Date Prepared:**

5/5/2017

Reviewer Revision

Disclaimer:

The information herein is believed to be correct but does not claim to be all inclusive and should be used only as a guide. Neither the above-named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Our Safety Data Sheet (SDS) are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated Safety Data Sheet (SDS) for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.