Safety Data Sheet
Product Identifier

SECTION 1. IDENTIFICATION

Product Identifier	Ziollo RV Roof Cleaner
Other Means of Identification	None
Recommended Use	This material is intended to be used as a cleaning product.
Restrictions on Use	None known
Initial Supplier Identifier	Ziollo Inc. #16-1150 Eighth Line Oakville, Ontario L6H 2R4, CANADA
Emergency Telephone	**1-855-451-5820 – 24 hrs a day**
Alberta / Northwestern Territories (PADIS):	1-800-332-1414
British Columbia (DPIC):	1-800-567-8911
Manitoba:	1-855-7POISON (1-855-776-4766)
New Brunswick:	911
Nova Scotia / Prince Edward Island (IWK):	1-800-565-8161
Ontario (OPC):	1-800-268-9017
Québec (CAPQ):	1-800-463-5060
Saskatchewan (PADIS):	1-866-454-1212
Yukon Territory:	(867) 393-8700
CANUTEC 1-888-CAN-UTEC	(226-8832), 613-996-6666 or *666 on a cellular phone

USA - Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case

See also section 4 “First aid measures”.

SECTION 2. HAZARD IDENTIFICATION

Signal Word: N/A

GHS Ratings
There are no GHS ratings that apply to this product at this time
GHS Hazards
There are no GHS hazards that apply to this product at this time
GHS Precautions
There are no GHS precautions that apply to this product at this time

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%w/w)	Common Name / Synonyms	Other Identifiers
Citric Acid	77-92-9	1.00% - 5.00%	N/A	N/A
Organic Acid Salt	506-89-8	1.00% - 5.00%	N/A	N/A

SECTION 4. FIRST-AID MEASURES

Inhalation:

Remove victim from exposure area immediately and keep them in fresh air at a rest position that is comfortable for breathing. If not breathing, if breathing is irregular, or if respiratory arrest occurs, administer artificial respiration or oxygen if trained personnel is available. It may be dangerous for the person administering aid to perform mouth-to-mouth resuscitation. Get medical attention. If unconsciousness occurs, place victim in recovery position and get medical attention immediately. Maintain an open airway.

Skin Contact:

Immediately flush contaminated skin with copious amounts of water. Continue to rinse for at least 20 minutes. Get medical attention if irritation develops or persists. Contaminated clothing should be removed in a manner limiting further exposure. Contaminated clothing must be washed before reuse. Clean footwear thoroughly before reuse.

Eye Contact:

Flush eyes immediately with copious amounts of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes.

Ingestion:

Wash out mouth with water. Get medical attention immediately. Substance may be harmful if swallowed. If material has been swallowed and the exposed person is conscious, give small amounts of water to drink. Stop giving water if the exposed person feels ill, as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting does occur, keep the victim's head low to prevent vomit from entering the lungs. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Acute and Delayed:

Eye Contact: May cause eye irritation.

Skin contact: May cause skin irritation.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Immediate Medical Attention and Special Treatment:

Eye Contact: Adverse symptoms may include, but are not limited to, the following: Redness, Pain or irritation, Watering.

Skin contact: Adverse symptoms may include, but are not limited to, the following: Pain or irritation, Redness, Blistering may occur.

Inhalation: No known significant effects or critical hazards.

Ingestion: Adverse symptoms may include, but are not limited to, the following: Stomach pains

Specific Treatment: No specific treatment

Notes to physician: Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled.

Note: Refer to Section 11 for toxicological information

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use dry chemical, CO2, water spray (fog) or foam.
Unsuitable Extinguishing Media:	Do not use water jet or water-based fire extinguishers.
Specific Hazards Arising from the Product:	If exposed to fire or extreme heat, closed containers may rupture.
Hazadous Decomposition:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products depend upon temperature, air supply, and the presence of other materials. Thermal decomposition can lead to the release of irritating gases and vapours.
Protective actions for fire-fighters:	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special Protective Equipment and Precautions for Fire-Fighters:	Fire-fighters should wear appropriate protective equipment and a self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Keep unnecessary and unprotected personnel away from contaminated area. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Avoid breathing vapour or mist. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Avoid dispersal of spilled material and runoff to waterways, drains, sewers, and soil. If the product has caused environmental pollution, inform the relevant authorities (sewers, waterways, soil, or air).

Methods for Containment and Cleaning Up:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined spaces. Contain and collect spillage with inert, absorbent material such as sand or earth. Do not use combustible materials such as saw dust. Sweep or scrape up contaminated absorbent material and containerize. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of contaminated material according to local regional regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Put on appropriate personal protective equipment (see Section 8). Do not handle until all safety precautions have been read and understood. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. When ventilation is inadequate, wear an appropriate respirator. Keep in the original container or an approved alternative made from compatible material. Keep container closed tightly when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for Safe Storage

Keep from freezing. Store in accordance with local regulations. Store in original container in a cool, dry, well-ventilated area protected from direct sunlight. Keep away from food and drink. Keep away from incompatible materials (see Section 10). Keep container sealed and closed tightly until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Storage and handling conditions: Store between 10-30°C.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name/CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
CITRIC ACID 77-92-9	Not Established	Not Established	Not Established
ORGANIC ACID SALT 506-89-8	Not Established	Not Established	Not Established

Appropriate Engineering Controls

Individual Protection Measures

Use only with adequate ventilation. Good general ventilation should be sufficient to control airborne levels. If user operations generate dust, fumes, or mist use ventilation to minimize exposure.

Eye/Face Protection

Safety eyewear with side shields complying with an approved standard should be worn to avoid exposure to liquid splashes, mists, dusts, or gases.

Skin Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.

Respiratory Protection

A properly fitted respirator that complies with an approved standard and is specified for protection against paint spray mist and organic vapours should be used when working in restricted or confined areas.

Additional Measures

Appropriate footwear and any additional protection measures should be selected based on the task being performed and the risks involved.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Green liquid
Odour	Acidic odour
Odour Threshold	Not Available
pH	1.1 – 1.5
Melting Point	Not Applicable
Freezing Point	0˚C
Initial Boiling Point and Boiling Range	100˚C
Flash Point	Not Applicable
Evaporation Rate	Close to water
Flammability (solid, gas)	Not Applicable
Upper and Lower Flammability or Explosive Limit	Not Applicable
Vapour Pressure	Not Available
Vapour Density (air = 1)	Not Available
Relative Density (water = 1)	1.01
Solubility in Water	Soluble
Solubility in Other Liquids	Not Available
Partition Coefficient, n-Octanol / Water (Log Kow)	Not Available
Auto-ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Water thin

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability: The product is stable.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: Avoid high temperatures. Keep from freezing.

Incompatible Materials: None Known.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products depend upon temperature, air supply, and the presence of other materials. Thermal decomposition can lead to the release of irritating gases and vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Mixture Toxicity: Not determined
Component Toxicity: 77-92-9 CITRIC ACID Oral LD50: 3 g/kg (Rat)
Target Organs: No information available
Effects of Overexposure: No known significant effects or critical hazards.

Potential Acute Health Effects:

Eye Contact:	May cause eye irritation.
Skin contact:	May cause skin irritation.
Inhalation:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical, and toxicological characteristics:

Eye Contact:	Adverse symptoms may include, but are not limited to, the following: Redness, Pain or irritation, Watering.
Skin contact:	Adverse symptoms may include, but are not limited to, the following: Pain or irritation, Redness, Blistering may occur.
Inhalation:	No known significant effects or critical hazards.
Ingestion:	Adverse symptoms may include, but are not limited to, the following: Stomach pains.

Delayed and immediate effects, including chronic effects from short- and long-term exposure:

Short term exposure:	No known significant effects or critical hazards.
Long term exposure:	No known significant effects or critical hazards.

Potential chronic health effects:

General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

SECTION 12. ECOLOGICAL INFORMATION *(section heading must appear; all content is optional)*

Ecotoxicity:	No Data Available
Persistence and Degradability:	No Data Available
Bio accumulative Potential:	No Data Available
Mobility in Soil:	No Data Available
Other Adverse Effects:	No Data Available

SECTION 13. DISPOSAL CONSIDERATIONS *(section heading must appear; all content is optional*

Contact your local municipal office for specific disposal guidelines in your region . The generation of waste should be avoided or minimized wherever possible. Disposable of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposable contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner . Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers .

SECTION 14. TRANSPORT INFORMATION *(section heading must appear; all content is optional)*

Agency	Proper Shipping Name	UN #	PACKING GROUP	Hazard Class(es)	ADDITIONAL INFORMATION
IATA/ICAO	Not Regulated	-	-	-	Product is not classified as a hazardous good
IMDG	Not Regulated	-	-	-	Product is not classified as a hazardous good
TDG	Not Regulated	-	-	-	Product is not classified as a hazardous good

SECTION 15. REGULATORY INFORMATION *(section heading must appear; all content is optional)*

Canada

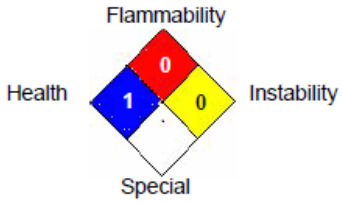
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulation (HPR) and WHMIS 2015. The SDS contains all of the information required by WHMIS 2015 and the Hazardous Products Regulation (HPR).

SECTION 16. OTHER INFORMATION

Legend:

RTU	Ready to Use
RTS	Ready to Spray
GHS	Globally Harmonized System of Classification and Labelling Chemicals
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
OSHA	Occupational Safety and Health Administration (United States)
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute for Occupational Safety and Health (United States)
EPA	Environmental Protection Agency (United States)
UN	United Nations
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
TDG	Transportation of Dangerous Goods
IUCLID	International Uniform Chemical Information Database
CNS	Central nervous system
CO2	Carbon dioxide
LC50	Concentration of a chemical in water or air which causes death in one half (50%) of a group of test animals
LD50	Amount of a chemical, given all at once, which causes death in one half (50%) in a group of test animals
EC50	Effective concentration of a substance that causes 50% of the maximum response
STEL	Short term exposure limit
TWA	Time weighted average

National Fire Protection Association (NFPA)



Date of latest revision – March 10, 2025

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