

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Sapphire Scientific RedXit  
**Synonym(s)** 101-140 - D  
**CAS #** Mixture  
**Product use** Spot Remover  
**Manufacturer** Sapphire Scientific  
2604 Liberator  
Prescott, AZ 86301 US  
Phone: 1-800-932-3030  
Emergency: 1-800-535-5053

## 2. Hazards Identification

**Emergency overview** WARNING  
EYE AND SKIN IRRITANT.  
May cause sensitization by inhalation.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** May cause irritation.

**Skin** May cause irritation.

**ACGIH - Threshold Limit Values - Skin Notations**  
Methyl alcohol 67-56-1 Skin - potential significant contribution to overall exposure by the cutaneous route

**NIOSH - Pocket Guide - Skin Notations**  
Methyl alcohol 67-56-1 Potential for dermal absorption

**Inhalation** May cause respiratory tract irritation.

**Ingestion** May cause stomach distress, nausea or vomiting.

**Target organs** Eyes. Respiratory system. Skin.

**Chronic effects** May cause sensitization by inhalation. Contains a potential teratogen. Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** Not available

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Alcohols, C9-11-iso-, C10-rich, ethoxylated	78330-20-8	3 - 7
Sodium xylene sulphonate	1300-72-7	3 - 7
Sodium metabisulfite	7681-57-4	10 - 30
Alkyl imidazolinium dicarboxylate sodium salt	68604-71-7	1 - 5
Methyl alcohol	67-56-1	0.1 - 1

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.

**Skin contact** Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists.

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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<b>Flammable properties</b>	Not flammable by WHMIS/OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulphur.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for containment</b>	Stop leak if you can do so without risk.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
Alcohols, C9-11-iso-, C10-rich, ethoxylated	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Alkyl imidazolinium dicarboxylate sodium salt	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Methyl alcohol	<b>ACGIH-TLV</b> TWA: 200 ppm STEL: 250 ppm <b>OSHA-PEL</b> TWA: 200 ppm
Sodium metabisulfite	<b>ACGIH-TLV</b> TWA: 5 mg/m3 <b>OSHA-PEL</b> Not established
Sodium xylene sulphonate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established

### Engineering controls

Use only under good ventilation conditions or with respiratory protection.

### Personal protective equipment

#### Eye / face protection

Wear safety glasses with side shields.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

#### Skin and body protection

As required by employer code.

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear.
<b>Color</b>	Colorless
<b>Form</b>	Liquid
<b>Odor</b>	Mild Floral / Sulfurous
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	5.2
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	Not available
<b>Auto-ignition temperature</b>	Not available

<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available
<b>Relative density</b>	8.9 lbs/gallon
<b>Octanol/water coefficient</b>	Not available
<b>Percent volatile</b>	Not available

## 10. Stability and Reactivity

<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulphur.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C9-11-iso-, C10-rich, ethoxylated	Not available
Alkyl imidazolinium dicarboxylate sodium salt	Not available
Methyl alcohol	Not available
Sodium metabisulfite	Not available
Sodium xylene sulphonate	Not available

### Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C9-11-iso-, C10-rich, ethoxylated	> 2000 mg/kg rat
Alkyl imidazolinium dicarboxylate sodium salt	Not available
Methyl alcohol	5628 mg/kg rat; 7300 mg/kg mouse; 14200 mg/kg rabbit; 7600 mg/kg monkey
Sodium metabisulfite	1131 mg/kg rat
Sodium xylene sulphonate	7200 mg/kg rat

### Effects of acute exposure

**Eye** May cause irritation.

**Skin** May cause irritation.

#### ACGIH - Threshold Limit Values - Skin Notations

Methyl alcohol 67-56-1 Skin - potential significant contribution to overall exposure by the cutaneous route

#### NIOSH - Pocket Guide - Skin Notations

Methyl alcohol 67-56-1 Potential for dermal absorption

**Inhalation** May cause respiratory tract irritation.

**Ingestion** May cause stomach distress, nausea or vomiting.

**Sensitization** May cause sensitization by inhalation. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

**Chronic effects** Non-hazardous by WHMIS/OSHA criteria.

<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>ACGIH - Threshold Limit Values - Carcinogens</b>		
Sodium metabisulfite	7681-57-4	A4 - Not Classifiable as a Human Carcinogen
<b>IARC - Group 3 (Not Classifiable)</b>		
Sodium metabisulfite	7681-57-4	Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites)
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>Teratogenicity</b>	Methanol has produced teratogenic effects in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity.	
<b>Name of Toxicologically Synergistic Products</b>	Not available	

## 12. Ecological Information

<b>Ecotoxicity</b>	See below	
<b>Ecotoxicity - Freshwater Algae - Acute Toxicity Data</b>		
Sodium metabisulfite	7681-57-4	72 Hr EC50 Desmodesmus subspicatus: 48 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 40 mg/L
<b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b>		
Methyl alcohol	67-56-1	96 Hr LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 19500 - 20700 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 18 - 20 mL/L [static]; 96 Hr LC50 Lepomis macrochirus: 13500 - 17600 mg/L [flow-through]
Sodium metabisulfite	7681-57-4	96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]
<b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>		
Sodium metabisulfite	7681-57-4	24 Hr EC50 Daphnia magna Straus: 89 mg/L
<b>Persistence / degradability</b>	Not available	
<b>Bioaccumulation / accumulation</b>	Not available	
<b>Mobility in environmental media</b>	Not available	
<b>Environmental effects</b>	Not available	
<b>Aquatic toxicity</b>	Not available	
<b>Partition coefficient</b>	Not available	
<b>Chemical fate information</b>	Not available	
<b>Other adverse effects</b>	Not available	

## 13. Disposal Considerations

<b>Disposal instructions</b>	Review federal, state/provincial, and local government requirements prior to disposal.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

## 14. Transport Information

<b>U.S. Department of Transportation (DOT)</b>	Not regulated as dangerous goods.
<b>Transportation of Dangerous Goods (TDG - Canada)</b>	Not regulated as dangerous goods.

## 15. Regulatory Information

<b>Canadian federal regulations</b>	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.	
<b>Canada - WHMIS - Ingredient Disclosure List</b>		
Methyl alcohol	67-56-1	1 %
Sodium metabisulfite	7681-57-4	1 %
<b>WHMIS status</b>	Controlled	
<b>WHMIS classification</b>	Class D - Division 2A, 2B	

WHMIS labeling



**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous chemical** Yes

**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

Methyl alcohol 67-56-1 5000 Lb final RQ; 2270 kg final RQ

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Methyl alcohol 67-56-1 1.0 % de minimis concentration

**CERCLA (Superfund) reportable quantity**

Methanol: 5000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Methyl alcohol 67-56-1 Present (refers to solutions greater than or equal to 3%)  
 Sodium metabisulfite 7681-57-4 Present

**U.S. - Illinois - Toxic Air Contaminants**

Methyl alcohol 67-56-1 Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Methyl alcohol 67-56-1 5000 Lb final RQ; 2270 kg final RQ

**U.S. - Massachusetts - Right To Know List**

Methyl alcohol 67-56-1 Present  
 Sodium metabisulfite 7681-57-4 Present

**U.S. - Minnesota - Hazardous Substance List**

Methyl alcohol 67-56-1 Skin  
 Sodium metabisulfite 7681-57-4 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Methyl alcohol 67-56-1 sn 1222  
 Sodium metabisulfite 7681-57-4 sn 1708

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Methyl alcohol 67-56-1 5000 Lb RQ (air); 1 lb RQ (land/water)

**U.S. - Pennsylvania - RTK (Right to Know) List**

Methyl alcohol 67-56-1 Environmental hazard  
 Sodium metabisulfite 7681-57-4 Present

**U.S. - Rhode Island - Hazardous Substance List**

Methyl alcohol 67-56-1 Toxic; Flammable  
 Sodium metabisulfite 7681-57-4 Toxic

**Inventory name**

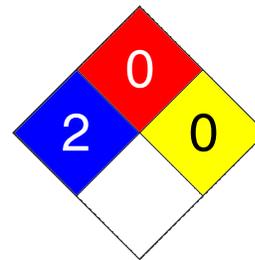
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	0
Physical Hazard	0
Personal Protection	B



### Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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### Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021

### Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.