MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Sapphire Scientific Fiber Soft Rapid Rinse and Cleaner

CAS # Mixture
Product use Cleaner

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

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential short term health effects

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

EyesMay cause irritation.SkinMay cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

Chronic effects 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

vomitina.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Alcohols, C12-15, ethoxylated	68131-39-5	3 - 7
Benzenesulfonic acid, decyl(sulfophenoxy) disodium salt	36445-71-3	1 - 5
Citric acid	77-92-9	1 - 5
Diethylene glycol monobutyl ether	112-34-5	1 - 5
Sodium citrate	68-04-2	1 - 5

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 Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice 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.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Dry chemical. Alcohol foam. Carbon dioxide.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

May include and are not limited to: Oxides of carbon.

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions 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.

Environmental precautions
Methods for containment
Methods for cleaning up

Prevent entry into waterways, sewers, basements or confined areas.

Stop leak if you can do so without risk.

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.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Avoid contact with eyes and skin. Wash thoroughly after handling.

Storage Keep out of reach of children. Store in a closed container away from incompatible

materials.

Exposure limits		
Ingredient(s)		Exposure Limits
Alcohols, C12-15, ethoxylated		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Benzenesulfonic acid, decyl(sulfophenoxy) disodium salt		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Citric acid		ACGIH-TLV
		TWA: 10 mg/m3
		OSHA-PEL
		TWA: 10 mg/m3
Diethylene glycol monobutyl ether		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Sodium citrate		ACGIH-TLV
		Not established
		OSHA-PEL
		Not established
Engineering controls	General ventilation normally adequate.	
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.

Appearance	Transparent
Color	Blue
Form	Liquid
Odor	Mild
Odor threshold	Not available
Physical state	Liquid
рН	4
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	None
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
	Not available

9. Physical and Chemical Properties

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Flammability limits in air, upper, % Not available

by volume

Vapor pressureNot availableVapor densityNot available

Specific gravity 1.02

Octanol/water coefficient Not available
Percent volatile Not available

10. Stability and Reactivity

Reactivity
This product may react with strong alkalies.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Acids. Oxidizers. Caustics.

Hazardous decomposition products May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50	
Ingredient(s)	LC50
Alcohols, C12-15, ethoxylated	Not available
Benzenesulfonic acid, decyl(sulfophenoxy) disodium salt	Not available
Citric acid	Not available
Diethylene glycol monobutyl ether	Not available
Sodium citrate	Not available
Component analysis - Oral LD50	
Ingredient(s)	LD50
Alcohols, C12-15, ethoxylated	1600 mg/kg rat
Benzenesulfonic acid, decyl(sulfophenoxy) disodium salt	3562 mg/kg rat
Citric acid	5040 mg/kg mouse; 3000 mg/kg rat
Diethylene glycol monobutyl ether	2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit
Sodium citrate	5000 mg/kg rat

Effects of acute exposure

EyeMay cause irritation.SkinMay cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization
Non-hazardous by WHMIS/OSHA criteria.
Chronic effects
Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity
Non-hazardous by WHMIS/OSHA criteria.
Mutagenicity
Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects
Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity
Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Diethylene glycol monobutyl ether 112-34-5 96 Hr EC50 Desmodesmus subspicatus: >100 mg/L 96 Hr EC50 Chlorella vulgaris: 18000 - 32000 mg/L Sodium citrate 68-04-2

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Citric acid 77-92-9 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static] Diethylene glycol monobutyl ether 112-34-5 96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static] Sodium citrate 96 Hr LC50 Poecilia reticulata: 18000-32000 mg/L 68-04-2

Ecotoxicity - Water Flea - Acute Toxicity Data

Citric acid 77-92-9 72 Hr EC50 Daphnia magna: 120 mg/L

112-34-5 24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L Diethylene glycol monobutyl ether

48 Hr EC50 Daphnia magna: 5600 - 10000 mg/L Sodium citrate 68-04-2

Persistence / degradability Not available Bioaccumulation / accumulation Not available Not available Mobility in environmental media Not available **Environmental effects** Aquatic toxicity Not available Not available Partition coefficient Not available Chemical fate information Other adverse effects Not available

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Canadian federal regulations

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Citric acid 77-92-9 1 % 1 % Diethylene glycol monobutyl ether 112-34-5

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

Oxirane: 10.0000

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

State regulations WARNING: This product contains a chemical known to the State of California to cause

cancer and birth defects or other reproductive harm.

Inventory name

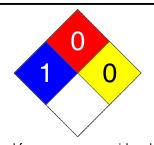
Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

16. Other Information







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.