

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME: Purpinator 0-2-4**

SDS# Purpinator [1.01]
Trade Name: Purpinator
Manufacturer's name: Rhizoflora, Inc.
Phone: 800-681-1757 Monday-Friday 8:00 a.m.-6:00 p.m. PST, general information

Poison Control: 1-800-222-1222
TDD: 1-800-972-3323

SECTION 2: HAZARDS IDENTIFICATION

Routes of entry: Skin: √ Eye: √ Ingestion: √ Inhalation: √

EYE- May cause irritation, redness and pain to the eyes.
SKIN- May cause irritation and redness at the site of contact.
INGESTION- May cause nausea, vomiting, and diarrhea if swallowed.
INHALATION- May cause respiratory tract irritation if inhaled.

Medical conditions or medications generally known to be aggravated by exposure to product: Not known.
Frequency and duration of exposure: Not known.
Effects of chronic overexposure: Not Known

CARCINOGENECITY: NTP: Not listed. IARC: Not listed. NTP: Not listed.
OSHA: Not listed. AICGH: Not listed.

SECTION 3: COMPOSITION

Components	CAS No.
Potassium Sulfate	7778-80-5
Magnesium Sulfate	7487-88-9
Monopotassium Sulfate	7778-77-0

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with water for 15 minutes. Contact a physician.

SKIN: Wash areas of contact with soap and water for 15 minutes. Remove any contaminated clothing and footwear. If irritation continues consult a physician.

INGESTION: If swallowed do not induce vomiting. Wash out mouth with water. Consult a physician immediately. Never give any liquids by mouth to an unconscious person.

INHALATION: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain immediate medical attention if symptoms occur.

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Use proper hygiene practices when using this product (nitrile gloves, eye protection, NIOSH approved respirator if used as an aerosol).

Utilize protective clothing to minimize skin contact (apron, lab coat, long sleeved shirt, pants, no shorts, no cut T-shirts).

Wear closed-toed shoes (no sandals/flip-flops) when using product.

Keep hair pulled back and out of face/eye area when using product.

SECTION 5: FIRE FIGHTING MEASURES

Flammable properties:	Not available.
Extinguishing media:	Use suitable extinguishing media for the surrounding fire. CO ₂ , dry chemical powder, foam. Caution: CO ₂ will displace air in confined spaces and may cause an oxygen deficient atmosphere.
Special firefighting procedures:	Not available.
Unusual Fire and Explosion Hazards:	Not available.
Protection of Firefighters:	Burn vapors may be irritating to eyes, skin, and the respiratory tract. Firefighters should utilize self contained breathing apparatus (SCBE) and full fire fighting gear (Bunker gear).
Stability:	Stable at room temperature.
Incompatibility (materials to avoid):	Strong oxidizing agents, strong bases.
Hazard decomposition or by products:	Decomposing plastic fumes from containers.
Hazardous polymerization:	Not available. Not expected.
Conditions to avoid:	Do not store above 45° C as container may rupture.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8. Contain and isolate any hazard area from unprotected personnel.

Spill response procedures: Absorb liquid spills with an absorbent; contain material and dispose of at an approved landfill in accordance with local, state, and federal regulations. Finish cleaning by spreading water on contaminated surfaces and dispose of in an approved landfill in accordance with local, state, and federal regulations.

Clean water act requirements: Not available

Resource Conservation and Recovery Act: Not available

SECTION 7: HANDLING AND STORAGE

Precautions: Use with adequate ventilation. Keep container away from heat sources. Do not ingest. Do not pour on skin. If ingested, seek medical advice immediately and show the container or the label on the container.

Storage: Store out of direct sunlight. Store in a cool, dark place that is well ventilated. Keep container closed when not in use.

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SECTION 8: EXPOSURE CONTROLS

Engineering controls: Use with local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. If usage results in the generation of fume or mist, use adequate ventilation to keep exposure to airborne contaminants below exposure limits.

Personal Protection: Recommended wear protective safety glasses, lab coat or apron, NIOSH particle respirator and gloves when handling.

Respiratory protection: Wear NIOSH approved particle respirators if applying as a mist or spray. Follow the OSHA respirator regulations found in 29 CFR 1910.134

Ventilation: Use with adequate ventilation.

Protective gloves: Use with Nitrile gloves. Latex gloves can cause allergies in susceptible individuals.

Eye protection: Use with safety glasses or goggles.

Other protective clothing and equipment: Protective clothing to minimize skin contact should be worn.

Wear closed-toed shoes when using product. Keep hair pulled back and out of face/eye area when using.

Wear long sleeve shirts, pants, and socks.

Wash thoroughly with soap and water after handling and before eating, drinking, or smoking.

Exposure limits:

Components	CAS No.	ACGIH/TWA	OSHA PEL/8hrTWA
Potassium Sulfate	7778-80-5	Not established	Not established
Magnesium Sulfate	7487-88-9	Not established	Not established
Monopotassium Sulfate	7778-77-0	Not established	Not established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: Amber colored liquid.

Boiling Point: Not available

Solubility in Water: Soluble in water (v/v)

Vapor pressure: Not available

Melting Point: Not available

Molecular Weight: Not available

Specific Gravity: 1.04

pH: 5.4

Evaporation Rate: Not available

Flash Point: Not available

Flammable limits: **LEL:** Not available **UEL:** Not available

SECTION 10: STABILITY AND REACTIVITY

Stability: The product is stable under normal conditions.

Instability Temperature: Stable at 0° C – 45° C. [See section 5 Fire Fighting Measures, on container properties]

Incompatibility (materials to avoid): Strong oxidizing agents, strong bases.

Hazard decomposition or by products: Decomposing plastic fumes from containers.

Hazardous polymerization: Not available.

Conditions to avoid: Do not store above 45° C as container may rupture.

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SECTION 11: TOXICOLOGICAL INFORMATION

Routes of entry: Skin. Eyes. Ingestion. Inhalation.
LD50/LC50: Not applicable.
Chronic effect on Humans: Not known. Not expected to be a chronic hazard.
Other toxic effects on humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Not available.
Not available.
Heavy metals content: None, no detection. Information on heavy metals content and levels are available at <http://www.aapfco.org/metals.htm>

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal: Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
Recycling: Triple rinse container and recycle empty containers at appropriate recycling facilities in accordance with federal, state, and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material in the United States of America.
IATA/IMO/RID/ADR: Not applicable.
Special provisions for transport: Keep containers closed and keep between 0° C – 45° C .
Do not store above 45° C.

SECTION 15: REGULATORY INFORMATION

Federal and State Regulations:

California Safe Drinking Water and Toxic Enforcement Act of 1986:
This product contains the following ingredients known to the State of California to cause birth defects, cancer, or other reproductive harm and require a warning under the statute: **NO** products were found.

TSCA: All ingredients are on the inventory or exempt from listing.
SARA Title III Rules: None
Section 313 Toxic Chemicals: None
Section 302 EHS: None

WHIMS: Not Applicable
EINECS: Not Applicable
METI: Not Applicable
KECL: Not Applicable
AICS: Not Applicable

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Note to the reader

This SAFETY DATA SHEET is applicable only to the material as packaged. This product contains chemicals and all chemicals may pose unknown hazards and should be used with utmost caution. The information and recommendations contained herein are represented to be in good faith, and believed to be as accurate as possible within the current version of this SAFETY DATA SHEET (SDS). If this product is mixed with any other materials and/or chemicals, deteriorates, or becomes contaminated with microbiological or chemical agents, it may pose hazards not listed or discussed in this SDS. It is the end user responsibility to insure proper procedures are developed and adhered to when utilizing this product. This includes utilizing proper personal protection equipment, proper handling, and usage protocols based on the end user actual usage of the product. While his SDS is based on technical data determined to be accurate, and created in good faith, RHIZOFLOA. INC. assumes no responsibility for the completeness or accuracy of the information contained herein. Rhizoflora. Inc. (RHIZOFLOA. INC.) makes no representation as to the completeness or accuracy of this SDS. In no event will RHIZOFLOA. INC. or the seller be liable for consequential, incidental, special, exemplary, or indirect damages resulting from the use of this SDS.

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