



Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Starch Indicator, 0.5 – 2% w/v Aqueous

Product Code(s): S1012, S1047, S1134, RS-STR1

Synonyms: Mixture.

Recommended Use: For manufacturing, industrial, and laboratory use only. Use as a laboratory reagent.

Uses Advised Against: Not for food, drug, or household use.

Supplier: Rocky Mountain Reagents, Inc.

4621 Technology Drive, Golden, CO 80403 Phone: (303) 762-0800 Fax: (303) 762-1240

Emergency Phone Number: For health emergency, call poison control: (800) 222-1222.

2. HAZARDS IDENTIFICATION

Hazard Classifications: This product is classified as not hazardous under OSHA's Hazard Communication

Standard, 29 CFR 1910.1200 (HCS) and the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS). However, all chemicals handled and

used in the workplace should be treated with caution.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Pictograms: Not applicable.

Precautionary Statements:

Prevention: Not applicable.

Response: Not applicable.

Storage: Not applicable.

Disposal: Not applicable.

Hazards Not Otherwise

Classified:

Not applicable.

Toxicity Statement: Not applicable.

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H ₂ O	97.9 – 99.4
Starch	Polymeric Carbohydrate	9005-84-9	N/A	0.500 - 2.00
Salicylic Acid	2-Hydroxybenzoic Acid	69-72-7	C ₇ H ₆ O ₃	0.125

Trade Secret Statement: Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs,

keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center if symptoms occur.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with soap and plenty of water for at

least 15 minutes. Wash clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Check for and remove contact lenses if present and easy to do. Immediately flush eyes with

gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids

occasionally. Get medical attention if symptoms occur.

General Advice: Poison information centers in each state can provide additional assistance for scheduled

poisons. Ensure that medical personnel and those providing first aid are aware of the

material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Irritation, coughing, nausea, vomiting, diarrhea, thirst, drowsiness, dizziness, visual

impairment. May be harmful if swallowed, inhaled, absorbed through the skin, or exposed to the eyes. May cause irritation to skin, eyes, respiratory tract, and gastrointestinal tract. Prolonged or repeated exposure may cause reproductive effects and mutagenic effects.

Immediate Medical Care/

Special Treatment:

If you feel unwell or are concerned, call a physician or poison control center. Treat

symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

Hazardous Combustion

Products:

Toxic and/or corrosive fumes.

Specific Hazards: Excessive thermal conditions may cause decomposition and yield hazardous combustion

products listed above.

Special Protective Equipment/

Precautions for Firefighters:

As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positivepressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. In the event of fire and/or explosion, do not breathe fumes.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:

Isolate hazard area and keep unnecessary and unprotected personnel away from the area of leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.

Emergency Procedures:

In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

Methods for Containment:

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup:

Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see Section 8

Wear personal protective equipment (see Section 8). Provide sufficient air exchange and/or exhaust in work areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and

precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store in a segregated and approved area away from

incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage,

handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: Water: No information found.

Starch: ACGIH (TLV): 10 mg/m³

OSHA (PEL): 15 mg/m³ NIOSH (REL): 10 mg/m³

Salicylic Acid: No information found.

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or goggles. Maintain approved eye wash station and

accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

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Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be

permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective Ensure that glove material is compatible with this product. This information is available from

glove manufacturers.

Equipment:

9. PHYSICAL AND CHEMICAL PROPERTIES

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance: White, translucent liquid.

Odor: Odorless

Odor Threshold: No information found.

Formula Weight: Mixture.

No information found. pH:

Melting/Freezing Point: ≈ 0°C ≈ 100 °C **Boiling Point/Range:**

Decomposition Temperature: No information found.

Flash Point: Not applicable. **Auto-ignition Temperature:** Not applicable. Flammability: Not flammable. Flammability/Explosive Limits: Not applicable.

Solubility: Miscible with water. Vapor Pressure: No information found. Vapor Density: No information found.

Specific Gravity: 1.0 (Water = 1)

No information found. **Evaporation Rate:** No information found. Viscosity: **Partition Coefficient** No information found.

(n-octanol/water):

STABILITY AND REACTIVITY 10.

Reactivity Data: No information found.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Heat, incompatible materials.

Strong oxidizers, strong bases, iron compounds. **Incompatible Materials:**

Hazardous Decomposition

Products:

Carbon oxides.

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Reactions:

May react vigorously or violently if exposed to extreme thermal conditions. Contact with

incompatible materials may yield hazardous decomposition products listed above.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact.

Acute Effects: May be harmful if swallowed, inhaled, absorbed through the skin, or exposed to the eyes.

May cause irritation to skin, eyes, respiratory tract, and gastrointestinal tract.

Chronic Effects: Prolonged or repeated exposure may cause reproductive effects and mutagenic effects.

Toxicological Data: Water: Not applicable.

Starch: No information found.

Salicylic Acid: LD₅₀ Oral, Rat: 891 mg/kg

 LD_{50} Dermal, Rabbit: > 10,000 mg/kg LC_{50} Inhalation, Rat: > 1.8 mg/L 4 h

May be mutagenic based on animal and microorganism data.

May be toxic to reproduction based on animal data.

Symptoms of Exposure: Irritation, coughing, nausea, vomiting, diarrhea, thirst, drowsiness, dizziness, visual

impairment.

Carcinogenic Effects: No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: Water: Not applicable.

Starch No information found.

Salicylic Acid: EC₅₀, Water Flea (Daphnia magna): 105 mg/L 24 h

Persistence and Degradability: No information found.

Environmental Effects: Not expected to be hazardous to the environment. However, the possibility of an

environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

13. DISPOSAL INFORMATION

Disposal Instructions: All wastes must be handled in accordance with local, state, and federal regulations.

Minimize exposure to product waste (see Section 8).

Contaminated Packaging: Because emptied containers retain product residue, follow label warnings even after

container is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: No information found.

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14. TRANSPORT INFORMATION

DOT: Not regulated.

Environmental Hazard

Regulations:

No information found.

Other Transport Precautions: No information found.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

Hazard Category	List (Yes/No)	
Section 311 – Hazardous Chemical	No	
Immediate Hazard	No	
Delayed Hazard	No	
Fire Hazard	No	
Pressure Hazard	No	
Reactivity Hazard	No	

Section 313: No information found.

CERCLA Reportable Quantities: No information found.

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country or region.

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16. OTHER INFORMATION

Disclaimer:

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Reason for Revision: Update of Section 1 over 05/19/2016 version.

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