

### Section 1: Identification

**COMPANY:** Sportsman Consulting, LLC DBA Vinmetrica  
6084 Corte del Cedro, Suite 105  
Carlsbad, CA 92011

**PRODUCT NAME:** Starch Indicator Solution, 1%, RRS Starch Indicator

**SYNONYMS:**

**Recommended Use** Professional, scientific and technical activities.

**Uses advised against:** None known.

**EMERGENCY PHONE:** 408-887-9230

**INFORMATION PHONE:** 760-494-0597 x 102

### Section 2: Hazard(s) Identification

**Classification:**

**Physical hazards:** Not classified

**Health hazards:** Not classified

**Environmental hazards:** Not classified

**OSHA defined hazards:** Not classified

**SIGNAL WORD:** None

**Hazard symbol:** None

**HAZARD STATEMENTS:**

This mixture does not meet the criteria for classification.

**Precautionary Statement(s):**

**Preventions:**

Observe good industrial hygiene practices.

**Response:**

Wash hands after handling

**Storage:**

Store away from incompatible materials.

**Disposal:**

Dispose of contents/container according to Federal, State and Local Regulations.

**Hazards not otherwise classified (HNOC):** None known.

### Section 3: Composition/Information on Ingredients

Chemical Name	Common Name/Synonyms	CAS Number	Weight %
Water		7732-18-5	99
Starch, soluble	Starch indicator powder, modified starch	9005-84-9	1
Salicylic Acid	2-hydrobenzoic Acid	69-72-7	<0.2%

## Section 4: First Aid Measures

### Inhalation:

Remove from exposure and move to fresh air.

**Ingestion:** Have victim rinse mouth thoroughly with water.

**Skin Contact:** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact:** Flush eyes with water as a precaution.

**Most important symptoms/effects, acute and delayed:** Direct contact with eyes may cause temporary irritation

**Indication of immediate medical attention and special treatment needed:** Treat symptomatically

**General Information:** Ensure that medical personnel are away of the material(s) involved, and take precaution to protect themselves.

## Section 5: Fire Fighting Measures

**Suitable Extinguishing Media:** Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Flash Point:** Not applicable

**Method:** No information

**Autoignition Temperature:** No information available

### Explosion Limits

**Upper:** No data available

**Lower:** No data available

**Sensitivity to Mechanical Impact:** No information available

**Sensitivity to Static Discharge:** No information available

**Specific Hazards Arising from the Chemical:** None known

**Hazardous Combustion Products:** No information available

**Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move container from fire area if you can do it without risk.

## Section 6: Accidental Release Measures

**Personal Precautions:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

**Methods for Containment and Clean Up:** This product is miscible in water.

**Small spills:** Clean surface thoroughly to remove residual contamination. Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

**Large spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Dilute with water. Flush to sewer if local regulations permit. Following product recovery, flush area with water.

**Section 7: Handling and Storage**

**Handling:** Avoid prolonged exposure. Observe good industrial hygiene practices.

**Storage:** Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS)

**Section 8: Exposure Controls/ Personal Protection**

Exposure Guidelines:

US- OSHA Components	Type	Value	Form
Starch, soluble (CAS: 9005-84-9)	TWA	5 mg/m3	Respirable fraction
		15 mg/m3	Inhalable dust

ACGIH Components	Type	Value	Form
Starch, soluble (CAS: 9005-84-9)	TWA	10 mg/m3	Total dust

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Engineering Measures:** Good general ventilation (typically 10 air changes per hour) should be used. 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. General ventilation normally adequate.

**Personal Protective Equipment:**

**Eye/Face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and Body Protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Always observe good hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9: Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** colorless or translucent white, aqueous solution

**Odor:** Odorless

**Odor Threshold:** No information available

**pH:** No information available

**Melting Point:** 32° F (0° C) estimated

**Boiling Point:** 212° F (100° C) estimated

**Flash Point:** Not available

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not available

**Flammability or Explosive limits:**

**Upper:** No data available

**Lower:** No data available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Specific Gravity:** 1.00 estimated

**Solubility:** Completely miscible

**Partition coefficient, n-octanol/water:** Not available

**Autoignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

**Other information:**

**Density:** 1.00 g/cm<sup>3</sup> estimated

**Percent volatile:** 99% estimated

## Section 10: Stability and Reactivity

**Reactive Hazard:** This product is stable and non-reactive under normal conditions of use, storage and transport.

**Stability:** Stable under ordinary conditions of use and storage.

**Conditions to Avoid:** None known. Contact with incompatible materials.

**Incompatible Materials:** None known

**Hazardous Decomposition Products:** No hazardous decomposition products are known.

**Hazardous Polymerization:** Does not occur.

**Hazardous Reactions:** None under normal processing.

## Section 11: Toxicological Information

**Information on likely routes of exposure**

**Inhalation:** Prolonged inhalation may be harmful.

**Skin Contact:** No adverse effect due to skin contact are expected

**Eye Contact:** Direct contact with eyes may cause temporary irritation.

**Ingestion:** Expected to be a low ingestion hazard

**Symptoms related to the physical, chemical and toxicological characteristics:** Direct contact with eyes may cause temporary irritation.

**Acute Toxicity:**

Product	Species	Test Results
STARCH INDICATOR SOLUTION, 1% (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	2000.001 g/kg estimated
<i>Inhalation</i>		
LC50	Rat	99999 mg/m3
Components	Species	Test Results
SALICYLIC ACID (CAS 69-72-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2 g/kg
<i>Inhalation</i>		
LC50	Rat	> 900 mg/m3
<i>Oral</i>		
LD50	Cat	400 mg/kg
	Mouse	480 mg/kg
	Rat	891 mg/kg
<i>Other</i>		
LD50	Mouse	184 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation:** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation:** None known.

**Respiratory or skin sensitization:** No information available

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Mutagenic Effects:** Mutagenic effects have occurred in experimental animals.

**Reproductive Effects:** This product is not expected to cause reproductive or developmental effects.

**STOT – single exposure:** Not classified

**STOT – repeated exposure:** Not classified

**Aspiration hazard:** Not available

**Symptoms / effects, both acute and delayed:** No information available

## Section 12: Ecological Information

**Ecotoxicity:** This material is not expected to be harmful to aquatic life.

Components	Species	Test Results
SALICYLIC ACID (CAS 69-72-7)		
<b>Aquatic</b>		
Fish	LC50	Ide, silver or golden orfe (Leuciscus idus) 90 mg/l

**Persistence and Degradability:** None known

**Bioaccumulation/Accumulation:** No data available

**Partition coefficient n-octanol/water (low Kow):**

Salicylic Acid: 2.26

**Mobility:** No data available

**Other adverse effects:** No other adverse environmental effects.

### Section 13: Disposal Considerations

**Waste Disposal Methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### Section 14: Transport Information

**DOT:** Not regulated

**TDG:** Not regulated

**IATA:** Not regulated

**IMD/IMO:** Not regulated

### Section 15: Regulatory Information

#### US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

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

##### Hazard categories

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

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312

No

#### Hazardous chemical

#### SARA 313 (TRI reporting)

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

Country(s) 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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**Section 16: Other Information**

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