STARCH INDICATOR SOLUTION

H.M.S. Beagle
180 English Landing Drive
Suites 110-120
Parkville, MO 64152
816-587-9998
www.hms-beagle.com

1. Product Identification

Synonyms: Potato starch solution
CAS No.: Not applicable to mixtures.
Molecular Weight: Not applicable to mixtures.
Chemical Formula: Starch solution (ca. 99% water)
Product Codes: CHEM-596 and others

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Starch Soluble	9005-84-9	0.5 - 1%	No
2-Hydroxybenzoic Acid	69-72-7	0.1%	No
Water	7732-18-5	99 - 99.4%	No

3. Hazards Identification

Emergency Overview
As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure tothe chemical substance and ensure prompt removal from skin, eyes and clothing.

SAF-T-DATA(tm) Ratings
Health Rating: 0 - None
Flammability Rating: 0 - None
Reactivity Rating: 0 - None
Contact Rating: 1 - Slight
Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES
Storage Color Code: Green (General Storage)

Potential Health Effects
Inhalation:
Not expected to be a health hazard.
Ingestion:
No adverse effects expected.
Skin Contact:
No adverse effects expected.
Eye Contact:
No adverse health effects expected. Possibly some mild irritation.

Chronic Exposure:
No adverse health effects expected.
Aggravation of Pre-existing Conditions:
No information found.

4. First Aid Measures

Inhalation:
Not expected to require first aid measures.
Ingestion:
If large amounts were swallowed, give water to drink and get medical advice.
Skin Contact:
Not expected to require first aid measures.
Eye Contact:
Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Fire:
Not considered to be a fire hazard.
Explosion:
Not considered to be an explosion hazard.
Fire Extinguishing Media:
Use any means suitable for extinguishing surrounding fire.
Special Information:
Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Protect from freezing.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
None established.
Ventilation System:
Not expected to require any special ventilation.
Personal Respirators (NIOSH Approved):
Not expected to require personal respirator usage.
Skin Protection:
Wear protective gloves and clean body-covering clothing.
Eye Protection:
Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:
White, milky or clear, colorless liquid.
Odor:
Odorless.
Solubility:
Miscible in water.
Density:
1.0
pH:
No information found.
% Volatiles by volume @ 21°C (70°F):
~100%
Boiling Point:
~100°C (212°F)
Melting Point:
Not applicable.
Vapor Density (Air=1):
No information found.
Vapor Pressure (mm Hg):
No information found.
Evaporation Rate (BuAc=1):
No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
No information found.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
No incompatibility data found.
Conditions to Avoid:
No information found.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

	Cancer Lists		
	NTP Carcinogen		
Ingredient	Known	Anticipated	IARC Category
Starch Soluble (9005-84-9)	No	No	None
2-Hydroxybenzoic Acid (69-72-7)	No	No	None
Water (7732-18-5)	No	No	None

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

Chemical Inventory Status - Part 1

Ingredient	TSCA	EC	Japan	Australia
Starch Soluble (9005-84-9)	Yes	Yes	No	Yes
2-Hydroxybenzoic Acid (69-72-7)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

Chemical Inventory Status - Part 2

	Canada			
Ingredient	Korea	DSL	NDSL	Phil.
Starch Soluble (9005-84-9)	Yes	Yes	No	Yes
2-Hydroxybenzoic Acid (69-72-7)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

Federal, State & International Regulations - Part 1

	SARA 302		SARA 313	
Ingredient	RQ	TPQ	List	Chemical Catg.
Starch Soluble (9005-84-9)	No	No	No	No
2-Hydroxybenzoic Acid (69-72-7)	No	No	No	No
Water (7732-18-5)	No	No	No	No

Federal, State & International Regulations - Part 2

	RCRA	TSCA	
Ingredient	CERCLA	261.33	8(d)
Starch Soluble (9005-84-9)	No	No	No
2-Hydroxybenzoic Acid (69-72-7)	No	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No
Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: None allocated.
Poison Schedule: None allocated.
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and
the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **0** Flammability: **0** Reactivity: **0**
Label Hazard Warning:
As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the
chemical substance and ensure prompt removal from skin, eyes and clothing.
Label Precautions:
None.
Label First Aid:
Not applicable.
Product Use:
Laboratory Reagent and Consumer Hobby
Revision Information:
No Changes.
Disclaimer:
****
H.M.S. Beagle and/or Rainbow House Alchemists, LLC, provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. NEITHER H.M.S. BEAGLE NOR RAINBOW HOUSE ALCHEMISTS, LLC MAKE NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, H.M.S. BEAGLE AND RAINBOW HOUSE ALCHEMISTS, LLC, WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.
****

Prepared by: John Farrell Kuhns
Phone Number: 816-587-9998 (U.S.A.)