

SAFETY DATA SHEET



1. IDENTIFICATION

Product identifier

Product Name Starch Indicator Solution, 1.0% w/v

Other means of identification

Product code: ST7010-B

Recommended use and restriction on use

- **Recommended use:** Laboratory chemicals
- **Restrictions on use:** No relevant information available.

Manufacturer/Supplier:

AquaPhoenix Scientific, Inc.
860 Gitts Run Road
Hanover, PA 17331
Phone: (717)632-1291
Toll-Free: (866)632-1291
info@aquaphoenixsci.com

Emergency telephone number

Emergency Phone Numbers

ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

2. HAZARDS IDENTIFICATION

Classification

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

- **GHS label elements:** Not regulated.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard statements:** Not regulated.
- **Precautionary statements:** Not regulated.

Other hazards: There are no other hazards not otherwise classified that have been identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Hazards	Weight %
Water	7732-18-5		≥90%
Starch	9005-25-8	Combustible Dust	<1%
Sodium chloride	7647-14-5		<1%
Sodium acetate	127-09-3		<1%
Salicylic acid	69-72-7	☠ Eye Dam. 1, H318 ☠ Acute Tox. 4, H302	<1%
Zinc chloride	7646-85-7	☠ Skin Corr. 1B, H314 ☠ Acute Tox. 4, H302	<0.25%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye Contact	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Skin Contact	Wash with soap and water. If skin irritation is experienced, consult a doctor.
Inhalation	Supply fresh air; consult doctor in case of complaints.
Ingestion	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects	Slight irritant effect on eyes. Slight irritant effect on skin and mucous membranes.
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Indication of any immediate medical attention and special treatment needed

No relevant information available.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

The product is not flammable.
Use firefighting measures that suit the environment.

Unsuitable Extinguishing Media

No relevant information available.

Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

Protective equipment and precautions for firefighters

Wear self-contained respiratory protective device.
Wear fully protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental precautions

Environmental Precautions No special measures required.

Methods and material for containment and cleaning up

Methods for Containment Wipe up small spills with paper towel and discard.

Methods for Cleaning Up For larger spills, add sawdust, chalk, or other inert binding material, then sweep up and discard.
Dispose of the collected material according to regulations.

Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling No special measures required.

Information about protection against explosions and fires No special measures required.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles / Information about storage in one common storage facility Store in cool, dry conditions in well-sealed receptacles.
Store away from foodstuffs

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	PEL (USA)	REL (USA)	TLV (USA)	EL (Canada)	EV (Canada)	LMPE (Mexico)
Starch 9005-25-8	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction	Long-term value: 10 mg/m ³	Long-term value: 10* 3** mg/m ³ *total dust; **respirable fraction	Long-term value: 10 mg/m ³ total dust	Long-term value: 10 mg/m ³ A4
Zinc chloride 7646-85-7	Long-term value: 1 mg/m ³ Fume	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³ fume	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³ fume	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³ fume	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³

Appropriate engineering controls

Engineering Controls No relevant information available.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses.

Skin and Body Protection Protective gloves. Protective work clothing.

Respiratory Protection Not required under normal conditions of use.

Hygiene Measures Keep away from foodstuffs, beverages, and feed.
Avoid contact with the eyes and skin.
Avoid breathing mist, vapors, or spray.

Limitation and supervision of exposure into the environment No special requirements

Risk management measures No special requirements

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Liquid	Odor	Characteristic
Appearance	Clear	Odor Threshold	Not Determined
Color	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	Not determined	None known
Melting point/Melting range	Not determined.	None known

Boiling point / boiling range	Not determined.	None known
Flash Point	The product is not flammable.	None known
Evaporation rate	Not determined.	None known
Flammability (solid, gas)	Not applicable.	None known
Flammability Limits in Air		
Upper flammability limit	Not determined.	None known
Lower flammability limit	Not determined.	None known
Vapor pressure	Not determined.	None known
Vapor density	Not determined.	None known
Specific Gravity	1.04-1.06	None known
Water Solubility	Fully miscible.	None known
Solubility in other solvents	No data available	None known
Partition coefficient:	Not determined.	None known
Autoignition temperature	Not determined.	None known
Oxidizing properties:	Not determined.	None known.
Decomposition temperature	Not determined.	None known
Kinematic viscosity	Not determined.	None known
Dynamic viscosity	Not determined.	None known
Danger of explosion:	Product does not present an explosion hazard.	

10. STABILITY AND REACTIVITY

Reactivity

No relevant information available.

Chemical stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

Reacts with strong acids and alkali.

Conditions to avoid

Excessive heat.

Incompatible materials

No relevant information available.

Hazardous Decomposition Products

Under fire conditions only:

Carbon monoxide and carbon dioxide

Chlorine compounds

11. TOXICOLOGICAL INFORMATION

Component Information

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc chloride 7646-85-7	1260 mg/kg (mouse) 1100 mg/kg (rat)	-	-

Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

Primary irritant effect:

On the skin: Based on available data, the classification criteria are not met.

On the eye: Based on available data, the classification criteria are not met.

Sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data; the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data; the classification criteria are not met.
STOT single exposure	Based on available data, the classification criteria are not met.
STOT repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

12. Ecological Data

Toxicity

Aquatic toxicity	No relevant information available.
Persistence and degradability	No relevant information available.
Bioaccumulative potential:	No relevant information available.
Mobility in soil:	No relevant information available.
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	
Other adverse effects	No relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation:

The user of this material has the responsibility to dispose of unused material, residues, and containers in compliance with all relevant local, state, and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number

· DOT, ADR/RID/ADN, IMDG, IATA Not regulated.

UN proper shipping name

· DOT, ADR/RID/ADN, IMDG, IATA Not regulated.

Transport hazard class(es)

· DOT, ADR/RID/ADN, IMDG, IATA
· Class Not regulated.

Packing group

· DOT, ADR/RID/ADN, IMDG, IATA Not regulated.

Environmental hazards

· Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture

United States (USA)

SARA

Section 302 (extremely hazardous substances): None of the ingredients are listed.
Section 355 (extremely hazardous substances): None of the ingredients are listed.
Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California)
Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females: None of the ingredients are listed.
Chemicals known to cause developmental toxicity for males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: None of the ingredients are listed.

EPA (Environmental Protection Agency): 7646-85-7 Zinc Chloride: D, I, II

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

Canadian Domestic Substances List (DSL) (Substances not listed.): All ingredients are listed.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health Administration

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Sources:

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

Prepared By Technical Department

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General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet