



Safety Data Sheet

Revision version: SDS-1.0

Revision date: 03 Feb 2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

Product name: 1% (w/v) Starch Indicator Solution
Company name: HCS Scientific & Chemical Pte Ltd
Telephone no: (+65) 6777 7077
Email: reactivo@hcs-lab.com

2. HAZARDS IDENTIFICATION

2.1 GHS Classification

Not a hazardous substance

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Percent	Molecular Formula
Soluble Starch	9005-84-9	1%	$(C_6H_{10}O_5)_n$
Water	7732-18-5	99%	H_2O

4. FIRST-AID MEASURES

- 4.1 General advice:** When symptoms persist or in all cases of doubt seek medical advice
- 4.2 Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- 4.3 Eye contact:** Wash off with soap and plenty of water.
- 4.5 Most Important symptoms and effects, both acute and delayed**
None
- 4.6 Indication of any immediate medical attention and special treatment needed**
None

5. FIREFIGHTING MEASURES

- 5.1 Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
- 5.2 Special hazards arising from the substance or mixture**
No information available
- 5.3 Advice for firefighters**
Wear self-contained breathing apparatus if necessary

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid breathing in mist or vapour.



6.2 Environmental precautions

No special precautions required.

6.2 Methods and materials for containment and cleaning up

Keep in closed containers for disposal

6.3 Reference to other sections

For disposal, see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No data available

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place

7.2 Specific end use (s)

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Appropriate engineering controls General industrial hygiene practice.

Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Body Protection impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Slightly cloudy
Odor:	No information found
pH:	No information found
Melting / freezing point:	No information found
Initial boiling point:	No information found
Flash point:	No information found
Evaporation rate:	No information found
Flammability (Solid,gas):	No information found
Upper/lower flammability:	No information found
Vapour pressure:	No information found
Vapour density:	Insoluble in water
Relative density:	1.00 g/mL at 20°C
Water solubility:	Completely miscible
Partition co-efficient:	Octanol / water no information found
Auto-ignition temperature:	No information found
Decomposition temperature:	No information found

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information found

10.2 Chemical stability

No information found

10.3 Possibility of hazardous reactions

No information found

10.4 Conditions to avoid

No information found

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

No information found

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:	No information found
Skin corrosion/irritation:	No information found
Serious eye damage/irritation:	No information found
Respiratory or skin sensitization:	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity:	No information found
Carcinogenicity IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



Reproductive toxicity:	No information found
Specific target organ toxicity:	(Single exposure) No information found
Specific target organ toxicity:	(Repeated exposure) No information found
Aspiration hazard:	No information found

12. ECOLOGICAL INFORMATION

Toxicity:	No information found
Persistence and degradability:	No information found
Bioaccumulative potential:	No information found
Mobility in soil:	No information found
PBT & vPvB assessment	No information found
Other adverse effects:	No information found

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company

13.2 Contaminated packaging

Dispose as unused product

14. TRANSPORT INFORMATION

14.1 Shipping Name:	Not dangerous goods
Class:	None
Packing group:	None
UN/NA:	None
Environmental hazards:	None
Special precautions for user:	None

15. REGULATORY INFORMATION

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

Notification Status

AICS:	On the inventory, or in compliance with inventory
DSL:	All components of this product are on the Canadian DSL.
ENCS:	Not in compliance with the inventory- water
ISHL:	Not in compliance with the inventory- potassium chloride, water
KECI	On the inventory, or in compliance with inventory
NZIoC	On the inventory, or in compliance with inventory
PICCS	On the inventory, or in compliance with inventory



16. OTHER INFORMATION

16.1 Reason for Revision: General Update

Date of Revision: 03/02/2021

16.2 Disclaimer:

The information contained in this Safety Data Sheet is intended to assist in the use of the above product without risk to safety or health and is based on current knowledge and experience. This information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

16.3 Further information:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

