# SAFETY DATA SHEET

## Preparation Date: 06/23/2015  
Revision Date: 04/24/2018  
Revision Number: G2

## 1. IDENTIFICATION

### Product identifier

- **Product code:** S-244  
- **Product Name:** STARCH TS, (U.S.P. TEST SOLUTION)

### Other means of identification

- **Synonyms:** No information available  
- **CAS #:** Mixture  
- **RTECS #:** Not available  
- **CI#:** Not available

### Recommended use of the chemical and restrictions on use

- **Recommended use:** No information available.  
- **Uses advised against:** No information available

### Supplier:

Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** [https://www.spectrumchemical.com](https://www.spectrumchemical.com)  
**Emergency telephone number:** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

**Not classified**

**Hazards not otherwise classified (HNOC)**  
Not Applicable

**Other hazards**  
Not available

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**Product code:** S-244  
**Product name:** STARCH TS, (U.S.P. TEST SOLUTION)
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>99.5</td>
</tr>
<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
<td>0.5</td>
</tr>
<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
<td>0.005</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If eye irritation persists, consult a specialist.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
May cause eye irritation
May cause skin irritation
May cause irritation of respiratory tract

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** No information available.

**Specific hazards:** Nonflammable.

**Special Protective Actions for Firefighters**

**Product code:** S-244  **Product name:** STARCH TS, (U.S.P. TEST SOLUTION)
Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container.

Methods for cleaning up: Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions: Keep container tightly closed. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials: No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
<td>None</td>
<td>0.05 mg/m³ TWA (mercury organic compounds)</td>
<td>0.025 mg/m³ TWA (as Hg) (Mercury inorganic compounds)</td>
<td>None</td>
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</table>

Canada

Product code: S-244 Product name: STARCH TS, (U.S.P. TEST SOLUTION)
<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
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<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
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<td>None</td>
<td>None</td>
<td>None</td>
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<td>7774-29-0</td>
<td>0.025 mg/m³ TWA (as Hg (Mercury inorganic compounds))</td>
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### Australia and Mexico

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<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
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<td>None</td>
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<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
<td>0.025 mg/m³ TWA (as Hg)</td>
<td>0.003 ppm TWA (as Hg)</td>
</tr>
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</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Individual protection measures, such as personal protective equipment

**Personal Protective Equipment**

- **Eye protection:** Goggles
- **Skin and body protection:** Long sleeved clothing, apron, Gloves
- **Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state:** Liquid
- **Odor:** No information available.
- **Molecular/Formula weight:** No information available.
- **Flash Point Tested according to:** Not available
- **Upper Explosion Limit (%):** No information available
- **Product code:** S-244

- **Appearance:** No information available.
- **Taste:** No information available.
- **Flammability:** No information available
- **Autoignition Temperature (°C/°F):** No information available
- **Melting point/range(°C/°F):** No information available
- **Color:** No information available.
- **Formula:** No information available
- **Flashpoint (°C/°F):** No information available
- **Lower Explosion Limit (%):** No information available
- **Decomposition temperature(°C/°F):** No information available

**Product name:** STARCH TS, (U.S.P. TEST SOLUTION)
10. STABILITY AND REACTIVITY

Reactivity
No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: No information available.

Incompatible Materials: No information available

Hazardous decomposition products: No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Eyes. Ingestion. Inhalation.

Acute Toxicity

Component Information

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<thead>
<tr>
<th>Substance</th>
<th>CAS-No.</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
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<tr>
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<td>&gt; 90 mL/kg Oral LD50 Rat</td>
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</tr>
</tbody>
</table>

Product code: S-244  Product name: STARCH TS, (U.S.P. TEST SOLUTION)
L50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Starch, Soluble
CAS-No. 9005-84-9

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Mercuric Iodide, Red
CAS-No. 7774-29-0

LD50/oral/rat = 18 mg/kg Oral LD50 Rat
LD50/oral/mouse = 17 mg/kg
LD50/dermal/rabbit = No information available
LD50/dermal/rat = 75 mg/kg Dermal LD50 Rat
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation Inhalation of mist or vapors may cause respiratory tract irritation.

Ingestion Health injuries are not known or expected under normal use. Not expected to be a health hazard for usual industrial handling.

Product code: S-244  Product name: STARCH TS, (U.S.P. TEST SOLUTION)
Aspiration hazard

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

This product contains a very small amount of Mercuric Iodide which may cause adverse developmental effects and which may affect the central nervous system, kidneys, and thyroid upon chronic exposure.

Sensitization:

No information available.

Mutagenic Effects:

No information available

Carcinogenic effects:

Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
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<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
<td>Not listed</td>
<td>Classifiable as a Human Carcinogen (Mercury inorganic compounds)</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

No data is available

Reproductive Effects:

No information available

Developmental Effects:

No information available

Teratogenic Effects:

No information available

Specific Target Organ Toxicity

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organs:

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

No data available.

Persistence and degradability:

No information available

Bioaccumulative potential:

No information available.

Mobility:

No information available.

Product code: S-244  Product name: STARCH TS, (U.S.P. TEST SOLUTION)
13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
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<td>Water</td>
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<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Class: No information available
Packing group: No information available
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No Information available
Description: No information available

ADR

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available

RID

Product code: S-244 Product name: STARCH TS, (U.S.P. TEST SOLUTION)
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

ICAO
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
<td>Present XU</td>
<td>Present KE-01773</td>
<td>Present</td>
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<td>Present KE-23126</td>
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<td>Present 1-738</td>
<td>Present</td>
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<td>Present 231-873-8</td>
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</table>

U.S. Regulations

Mercuric Iodide, Red
   New Jersey RTK Hazardous Substance List: sn 1172
   New Jersey (EHS) List: SN 2414 500 lb. TPQ (Mercury compounds)
   Pennsylvania RTK: Present (Mercury inorganic compounds)
   Pennsylvania RTK - Environmental Hazard List Present (Mercury compounds and Mercury inorganic compounds)
   California Directors List of Hazardous Substances: Present (Mercury compounds)


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
⚠️WARNING: This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity:</th>
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<tbody>
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<td>Water</td>
<td>7732-18-5</td>
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<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
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<td>Developmental toxicity (Mercury compounds)</td>
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CERCLA/SARA

Product code: S-244  Product name: STARCH TS, (U.S.P. TEST SOLUTION)
<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
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<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<td>None</td>
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<td>9005-84-9</td>
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<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
<td>None</td>
<td>None</td>
<td>Mercury compounds</td>
<td>1% de minimus concentration</td>
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**U.S. TSCA**

<table>
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<th>Components</th>
<th>CAS-No.</th>
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<th>TSCA 8(d) - Health and Safety Reporting</th>
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<td>Starch, Soluble</td>
<td>9005-84-9</td>
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<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</tbody>
</table>

**Canada**

**WHIMIS 2015 - GHS Classifications**

WHIMIS 2015 Hazard Classification Information:

- **Component**: Water 7732-18-5 (99.5)
- **Component**: Mercuric Iodide, Red 7774-29-0 (0.005)

**Canada Hazardous Products Regulation**

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHIMIS 1988 Hazard Class**

Non-controlled

**Components**

- **Water**: Uncontrolled product according to WHMIS classification criteria
- **Starch, Soluble**: Uncontrolled product according to WHMIS classification criteria including 1%
- **Mercuric Iodide, Red**: D1A,D2B

**Canada Controlled Products Regulation**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
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<th>Components</th>
<th>WHIMIS Ingredient Disclosure List -</th>
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<td>Mercuric Iodide, Red</td>
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**Inventory**

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<tr>
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<td>Present</td>
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<td>7774-29-0</td>
<td>Present</td>
<td>Not Listed</td>
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**Components**

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<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
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**Product code**: S-244  **Product name**: STARCH TS, (U.S.P. TEST SOLUTION)
### EU Classification

#### EU GHS - SV - CLP 1272/2008

<table>
<thead>
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<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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<td>Water</td>
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<td>Acute toxicity - Oral - Acute Tox. 2: H300 Fatal if swallowed. (Minimum classification, except Mercuric sulphide and those specified elsewhere in this Annex); Acute toxicity - Dermal - Acute Tox. 1: H310 Fatal in contact with skin. (except Mercuric sulphide and those specified elsewhere in this Annex); Acute toxicity - Inhalation - Acute Tox. 2: H330 Fatal if inhaled. (Minimum classification, except Mercuric sulphide and those specified elsewhere in this Annex); Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (C &gt;= 0.1 %; Minimum classification; No information to prove exclusion of certain routes of exposure; except Mercuric sulphide and those specified elsewhere in this Annex); Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life. (except Mercuric sulphide and those specified elsewhere in this Annex); Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (except Mercuric sulphide and those specified elsewhere in this Annex)080-002-00-6. Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (C &gt;= 0.1 %; Minimum classification; No information to prove exclusion of certain routes of exposure; except Mercuric sulphide and those specified elsewhere in this Annex)080-002-00-6. (Mercury inorganic compounds)</td>
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<tr>
<td>Starch, Soluble</td>
<td>9005-84-9</td>
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<tr>
<td>Mercuric Iodide, Red</td>
<td>7774-29-0</td>
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#### R-phrase(s)

Not determined (not applicable)

**Product code:** S-244  
**Product name:** STARCH TS, (U.S.P. TEST SOLUTION)
### Components

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<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:
None.

### 16. OTHER INFORMATION

**Preparation Date:** 06/23/2015  
**Revision Date:** 04/24/2018  
**Prepared by:** Sonia Owen

**Disclaimer:**
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End of Safety Data Sheet