# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Fructose Test Reagent 1</td>
</tr>
<tr>
<td>Product code</td>
<td>FRUCTO_1</td>
</tr>
<tr>
<td>GMDN code</td>
<td>53278</td>
</tr>
</tbody>
</table>

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

**Industrial/Professional use spec:**
- For professional use only

**Use of the substance/mixture:**
- The Fructose Test is a photometric test for quantifying fructose in human seminal plasma.

### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

**FertiPro N.V.**
- Industriepark Noord 32
- 8730 Beernem
- Belgium
- info@fertipro.com

## 1.4. Emergency telephone number

**Emergency number:**
- +3250791805

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

- Skin Corr. 1A H314
- STOT SE 3 H335
- Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Signal word (CLP):** Danger

**Hazard pictograms (CLP):**

<table>
<thead>
<tr>
<th>GHS05</th>
<th>GHS07</th>
<th>GHS09</th>
</tr>
</thead>
</table>

**Hazardous ingredients:**
- TCA (ISO), trichloroacetic acid

**Hazard statements (CLP):**
- H314 - Causes severe skin burns and eye damage
- H335 - May cause respiratory irritation
- H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements (CLP):**
- P264 – Wash hands, forearms and face thoroughly after handling
- P280 - Wear protective gloves / protective clothing / eye protection / face protection
- P301+P330+P331 - if swallowed: rinse mouth. Do not induce vomiting.
- P303+P361+P353 - if on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water. Shower.
- P304+P340 - If inhaled: remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3. Other hazards

No additional information available
SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrapure water</td>
<td>(CAS No) 7732-18-5 (EC no) 231-791-2</td>
<td>70 - 90</td>
<td>Not classified</td>
</tr>
<tr>
<td>TCA (ISO), trichloroacetic acid</td>
<td>(CAS No) 76-03-9 (EC no) 200-927-2 (EC index no) 607-004-00-7</td>
<td>10 - 20</td>
<td>Skin Corr. 1A, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash affected clothing before reuse.
First-aid measures after eye contact: Remove contact lenses, if possible. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency macialention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation: May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Remove ignition sources. Use special care to avoid static electric charges. No open fire. Do not smoke.

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills as soon as possible. Collect spillage. Store away from other materials.
Section 7: Handling and Storage

7.1. Precautions for Safe Handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Keep only in the original container in a cool place away from direct (sun)light. Do not freeze. Do not use after expiry date.

Incompatible products: Strong bases. Strong acids.


Storage temperature: 2 - 8 °C

7.3. Specific End Use(s)

See instructions for use delivered with the device.

Section 8: Exposure Controls/Personal Protection

8.1. Control Parameters

No additional information available

8.2. Exposure Controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety. Avoid all unnecessary exposure.

Personal protective equipment: Wear fire/flame resistant/retardant clothing.

Skin protection: Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protection must be selected according to the concentration and volume of the dangerous substance at the specific workplace.

Hand protection: Wear protective 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 meet the specifications of Regulation EU 2016/425 and the standard EN374.

Eye/Face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Respiratory protection: Wear appropriate mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other information: Do not eat, drink or smoke during use. Do not pipette liquid using a mouth pipette.

Section 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Physical state: Liquid

Colour: Colourless.

Odour: Odourless.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): Non flammable

Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: No data available
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition generates corrosive vapours.

10.2. Chemical stability
Stable after transport (max. 5 days) at elevated temperatures (≤ 37°C). Stable for 12 months after date of manufacture.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct (sun)light. Extremely high or low temperatures. Open fire.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified
Serious eye damage/irritation: Serious eye damage, category 1, implicit
Skin corrosion/irritation: Causes severe skin burns and eye damage.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - water: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
Fructose Test Reagent 1
Persistence and degradability: May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential
Fructose Test Reagent 1
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
Avoid release to the environment

**SECTION 13: Disposal considerations**

<table>
<thead>
<tr>
<th>13.1. Waste treatment methods</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste disposal recommendations</td>
<td>Dispose in a safe manner in accordance with local/national regulations.</td>
</tr>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Not regulated for transport.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2. UN proper shipping name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name (ADR)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3. Transport hazard class(es)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport hazard class(es) (ADR)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transport hazard class(es) (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transport hazard class(es) (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transport hazard class(es) (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transport hazard class(es) (RID)</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4. Packing group</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group (ADR)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (RID)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5. Environmental hazards</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous for the environment</td>
<td>Yes</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Other information</td>
<td>No supplementary information available</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>14.6. Special precautions for user</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 15: Regulatory information**

<table>
<thead>
<tr>
<th>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>15.1.1. EU-Regulations</td>
<td></td>
</tr>
<tr>
<td>No REACH Annex XVII restrictions</td>
<td></td>
</tr>
<tr>
<td>Contains no REACH candidate substance</td>
<td></td>
</tr>
<tr>
<td>15.1.2. National regulations</td>
<td></td>
</tr>
<tr>
<td>No additional information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15.2. Chemical safety assessment</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No chemical safety assessment has been carried out</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 16: Other information**

<table>
<thead>
<tr>
<th>Data sources</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Other information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>
Fructose Test
Safety Data Sheet
according to Regulation (EC) No. 453/2010


| Skin Corr. 1A | H314 |
| STOT SE 3 | H335 |
| Aquatic Chronic 2 | H411 |

Full text of H-phrases:

- **Aquatic Acute 1**: Hazardous to the aquatic environment — Acute Hazard, Category 1
- **Aquatic Chronic 1**: Hazardous to the aquatic environment — Chronic Hazard, Category 1
- **Aquatic Chronic 2**: Hazardous to the aquatic environment — Chronic Hazard, Category 2
- **Skin Corr. 1A**: Skin corrosion/irritation, Category 1A
- **STOT SE 3**: Specific target organ toxicity — single exposure, Category 3
- **H314**: Causes severe skin burns and eye damage
- **H335**: May cause respiratory irritation
- **H400**: Very toxic to aquatic life
- **H410**: Very toxic to aquatic life with long lasting effects
- **H411**: Toxic to aquatic life with long lasting effects

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form : Mixture
Product name : Fructose Test Reagent
Product code : FRUCTO_2
GMDN : 53278

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Industrial/Professional use spec : For professional use only
Use of the substance/mixture : The Fructose Test is a photometric test for quantifying fructose in human seminal plasma.

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
FertiPro N.V.
Industriepark Noord 32
8730 Beernem
Belgium
info@fertipro.com

1.4. Emergency telephone number
Emergency number : +3250791805

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin Corr. 1A H314

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP) : H314

Signal word (CLP) : Danger
Hazardous ingredients : hydrogen chloride
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP) : P260 - Do not breathe vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a doctor, a POISON CENTER.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable
### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen chloride 37%</td>
<td>(CAS No) 7647-01-0 (EC no) 231-595-7 (EC index no) 017-002-00-2</td>
<td>70 - 90</td>
<td>Acute Tox. 3 (Inhalation:gas), Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>Ultrapure water</td>
<td>(CAS No) 7732-18-5 (EC no) 231-791-2</td>
<td>10 - 20</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general
- Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation
- Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact
- Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash affected clothing before reuse.

First-aid measures after eye contact
- Remove contact lenses, if possible. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion
- Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries
- Causes severe skin burns and eye damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Unsuitable extinguishing media: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures: Remove ignition sources. Use special care to avoid static electric charges. No open fire. Do not smoke.

#### 6.1.1. For non-emergency personnel

- Emergency procedures: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment: Equip cleanup crew with proper protection.
- Emergency procedures: Ventilate area.

#### 6.2. Environmental precautions

- Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up: Soak up spills as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Section 8. Exposure controls/personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours. Avoid contact during pregnancy/while nursing.
7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.
Storage conditions: Keep container closed when not in use. Keep only in the original container in a cool place away from direct (sun)light. Do not freeze. Do not use after expiry date.

Incompatible products: Strong bases. Strong acids.
Storage temperature: 2 - 8 °C

7.3. Specific end use(s)

See instructions for use delivered with the device.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety. Avoid all unnecessary exposure.
Personal protective equipment: Wear fire/flame resistant/retardant clothing.
Skin protection: Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protection must be selected according to the concentration and volume of the dangerous substance at the specific workplace.
Hand protection: Wear protective 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.
Eye/Face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Respiratory protection: Wear appropriate mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Other information: Do not eat, drink or smoke during use. Do not pipette liquid using a mouth pipette.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Colourless.
Odour: Acidic.
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): Non flammable
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: No data available
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
**SECTION 10: Stability and reactivity**

10.1. **Reactivity**
Thermal decomposition generates corrosive vapours.

10.2. **Chemical stability**
Stable after transport (max. 5 days) at elevated temperature (≤37°C). Stable for 12 months from date of manufacture.

10.3. **Possibility of hazardous reactions**
Not established.

10.4. **Conditions to avoid**
Direct (sun)light. Extremely high or low temperatures. Open fire.

10.5. **Incompatible materials**
Strong acids. Strong bases.

10.6. **Hazardous decomposition products**

**SECTION 11: Toxicological information**

11.1. **Information on toxicological effects**

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
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<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
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<tr>
<td>Skin corrosion/irritation</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Serious eye damage, category 1, implicit</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Potential adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
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**SECTION 12: Ecological information**

12.1. **Toxicity**
Toxic to aquatic life with long lasting effects.

12.2. **Persistence and degradability**

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Classification</th>
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<tbody>
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<td>Fructose Test Reagent 2</td>
<td>May cause long-term adverse effects in the environment.</td>
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</table>

12.3. **Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fructose Test Reagent 2</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.4. **Mobility in soil**
No additional information available

12.5. **Results of PBT and vPvB assessment**
No additional information available

12.6. **Other adverse effects**
Avoid release to the environment

**SECTION 13: Disposal considerations**

13.1. **Waste treatment methods**
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Fructose Test
Safety Data Sheet

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

Product meets requirements for Dangerous Goods in Excepted Quantities.

14.1. UN number
UN-No. (ADR) : 1789
UN-No. (IMDG) : Not applicable
UN-No.(IATA) : 1789
UN-No.(ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name
Proper Shipping Name (ADR) : HYDROCHLORIC ACID
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)
ADR
Transport hazard class(es) (ADR) : 8
Hazard labels (ADR) : 8

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : 8

ADN
Transport hazard class(es) (ADN) : Not applicable

RID
Transport hazard class(es) (RID) : Not applicable

14.4. Packing group
Packing group (ADR) : II
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available
### 14.6. Special precautions for user

#### 14.6.1. Overland transport

<table>
<thead>
<tr>
<th>Classification code (ADR)</th>
<th>:</th>
<th>C1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special provision (ADR)</td>
<td>:</td>
<td>520</td>
</tr>
<tr>
<td>Limited quantities (ADR)</td>
<td>:</td>
<td>1L</td>
</tr>
<tr>
<td>Excepted quantities (ADR)</td>
<td>:</td>
<td>E2</td>
</tr>
<tr>
<td>Packing instructions (ADR)</td>
<td>:</td>
<td>P001, IBC02</td>
</tr>
<tr>
<td>Mixed packing provisions (ADR)</td>
<td>:</td>
<td>MP15</td>
</tr>
</tbody>
</table>

| Portable tank and bulk container instructions (ADR) | : | T8 |
| Portable tank and bulk container special provisions (ADR) | : | TP2 |
| Tank code (ADR) | : | L4BN |
| Vehicle for tank carriage | : | AT |
| Transport category (ADR) | : | 2 |
| Hazard identification number (Kemler No.) | : | 80 |
| Orange plates | : | 80 1789 |

Tunnel restriction code (ADR) | : | E |

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Contains no REACH candidate substance

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Data sources


#### Other information

None.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]:**

| Skin Corr. 1A | H314 |

**Full text of H- and EUH-phrases:**

| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| H314 | Causes severe skin burns and eye damage |
| H331 | Toxic if inhaled |

**SDS EU (REACH Annex II)**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form : Mixture
Product name : Fructose Test Reagent 3
Product code : FRUCTO_3
GMDN : 53278

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses
Industrial/Professional use spec : For professional use only
Use of the substance/mixture : The Fructose Test is a photometric test for quantifying fructose in human seminal plasma

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
FertiPro N.V.
Industriepark Noord 32
8730 Beernem
Belgium
info@fertipro.com

1.4. Emergency telephone number
Emergency number : +3250791805

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2 H225
Acute Tox. 3 (Oral) H301
Acute Tox. 3 (Dermal) H311
Acute Tox. 3 (Inhalation:dust,mist) H331
STOT SE 1 H370

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP) :

Signal word (CLP) : Danger
Hazardous ingredients : methanol
Hazard statements (CLP) :
H225 - Highly flammable liquid and vapour
H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled
H370 - Causes damage to organs

Precautionary statements (CLP) :
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P260 - Do not breathe vapours
P264 - Wash hands and forearms thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308+P311 - If exposed or concerned: Call a poison center/doctor

2.3. Other hazards
No additional information available
**SECTION 3: Composition/information on ingredients**

### 3.1 Substance

**Name**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
</table>
| Methanol | (CAS No) 67-56-1 (EC no) 200-659-6     | >= 99 | Flam. Liq. 2, H225  
          | (EC index no) 603-001-00-X             |     | Acute Tox. 3 (Inhalation), H331  
          |                                        |     | Acute Tox. 3 (Dermal), H311  
          |                                        |     | Acute Tox. 3 (Oral), H301  
      | Indole  | (CAS No) 120-72-9 (EC no) 204-420-7   | 0,1 - 1 | Not classified  
          |             |                                        |     | STOT SE 1, H370 |

### 3.2 Mixture

**Name**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
</table>
| Methanol | (CAS No) 67-56-1 (EC no) 200-659-6     | (3 <= C < 10) STOT SE 2, H371  
          | (EC index no) 603-001-00-X             | (C >= 10) STOT SE 1, H370 |

Full text of H-phrases: see section 16

**SECTION 4: First aid measures**

### 4.1 Description of first aid measures

- **First-aid measures general**: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- **First-aid measures after inhalation**: Assure fresh air breathing. Allow the victim to rest.
- **First-aid measures after skin contact**: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash affected clothing before reuse.
- **First-aid measures after eye contact**: Remove contact lenses, if possible. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- **First-aid measures after ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

- **Symptoms/injuries**: Causes damage to organs.
- **Symptoms/injuries after inhalation**: Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.
- **Symptoms/injuries after skin contact**: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
- **Symptoms/injuries after ingestion**: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

**SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

- Unsuitable extinguishing media: Do not use a heavy water stream.

### 5.2 Special hazards arising from the substance or mixture

- **Fire hazard**: Highly flammable liquid and vapour.
- **Explosion hazard**: May form flammable/explosive vapour-air mixture.

### 5.3 Advice for firefighters

- **Firefighting instructions**: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- **Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

- **General measures**: Remove ignition sources. Use special care to avoid static electric charges. No open fire. No smoking.

#### 6.1.1 For non-emergency personnel

- **Emergency procedures**: Evacuate unnecessary personnel.

#### 6.1.2 For emergency responders

- **Protective equipment**: Equip cleanup crew with proper protection. Avoid breathing vapour.
**Fructose Test**

**Safety Data Sheet**


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**Emergency procedures**
Ventilate area.

**6.2. Environmental precautions**
Prevent entry to sewers and public waters.

**6.3. Methods and material for containment and cleaning up**
Methods for cleaning up: Soak up spills as soon as possible. Collect spillage. Store away from other materials.

**6.4. Reference to other sections**
See Section 8. Exposure controls/personal protection.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**
Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

**7.2. Conditions for safe storage, including any incompatibilities**
Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof equipment.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from direct (sun)light. Keep in fireproof place. Keep container tightly closed. Do not freeze. Do not use after expiry date.

Incompatible products: Strong bases. Strong acids.


Storage temperature: 2 - 8 °C

**7.3. Specific end use(s)**
See instructions for use delivered with the device.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**
No additional information available

**8.2. Exposure controls**
Appropriate engineering controls: USE ADEQUATE VENTILATION! Handle in accordance with good industrial hygiene and safety. Avoid all unnecessary exposure.

Personal protective equipment: Wear fire/flame resistant/retardant clothing.

Skin protection: Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protection must be selected according to the concentration and volume of the dangerous substance at the specific workplace.

Hand protection: Wear protective 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.

Eye/Face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Respiratory protection: Wear appropriate mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other information: Do not eat, drink or smoke during use. Do not pipette liquid using a mouth pipette.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: Liquid

Colour: Colourless.

Odour: Odourless

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

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17/12/2019

EN (English)

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Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
flammability (solid, gas) : Highly flammable liquid and vapour
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
Stable after transport (max. 5 days) at elevated temperatures (≤37°C).
Stable after 12 months after date of manufacture.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct (sun)light. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.
Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Causes damage to organs.
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

SECTION 12: Ecological information

12.1. Toxicity
No additional information available
12.2. Persistence and degradability

Fructose Test Reagent 3
Persistence and degradability
Not established.

12.3. Bioaccumulative potential

Fructose Test Reagent 3
Bioaccumulative potential
Not established.

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations
Dispose in a safe manner in accordance with local/national regulations.

Additional information
Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials
Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / AND

Product meets requirements for Dangerous Goods in Excepted Quantities.

14.1. UN number
UN-No. (ADR) : 1230
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : 1230
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name
Proper Shipping Name (ADR) : METHANOL
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)
Product meets requirements for Dangerous Goods in Excepted Quantities

ADR
Transport hazard class(es) (ADR) : 3 (6.1)
Hazard labels (ADR) : 3, 6.1
Product meets requirements for Dangerous Goods in Excepted Quantities.

**IMDG**
Transport hazard class(es) (IMDG) : Not applicable

**IATA**
Transport hazard class(es) (IATA) : 3

**ADN**
Transport hazard class(es) (ADN) : Not applicable

**RID**
Transport hazard class(es) (RID) : Not applicable

**14.4. Packing group**
Packing group (ADR) : II
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

**14.5. Environmental hazards**
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

**14.6. Special precautions for user**

**14.6.1. Overland transport**
Classification code (ADR) : FT1
Special provision (ADR) : 279
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP2
Tank code (ADR) : L4BH
Tank special provisions (ADR) : TU15
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
**Fructose Test**

**Safety Data Sheet**


**Special provisions for carriage - Operation (ADR)**: S2, S19

Hazard identification number (Kemler No.): 336

Orange plates: 336

Tunnel restriction code (ADR): D/E

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Contains no REACH candidate substance

**5.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**


Other information: None.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

- **Flam. Liq. 2**: H225
- **Acute Tox. 3 (Oral)**: H301
- **Acute Tox. 3 (Dermal)**: H311
- **Acute Tox. 3 (Inhalation:dust,mist)**: H331
- **STOT SE 1**: H370

Full text of H-phrases:

- Acute Tox. 3 (Dermal): Acute toxicity (dermal), Category 3
- Acute Tox. 3 (Inhalation): Acute toxicity (inhal.), Category 3
- Acute Tox. 3 (Inhalation:dust,mist): Acute toxicity (inhalation:dust,mist) Category 3
- Acute Tox. 3 (Oral): Acute toxicity (oral), Category 3
- Flam. Liq. 2: Flammable liquids, Category 2
- STOT SE 1: Specific target organ toxicity — single exposure, Category 1
- H225: Highly flammable liquid and vapour
- H301: Toxic if swallowed
- H311: Toxic in contact with skin
- H331: Toxic if inhaled
- H370: Causes damage to organs

**SDS EU (REACH Annex II)**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

17/12/2019
EN (English)
ID: FP09 I29 R02
19/30
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Fructose Reagent 4
Product code : FRUCTO_4
GMDN code : 53278

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : The Fructose Test is a photometric test for quantifying fructose in human seminal plasma

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

FertiPro N.V.
Industriepark Noord 32
8730 Beernem
Belgium
info@fertiapro.com

1.4. Emergency telephone number

Emergency number : +3250791805

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin Corr. 1B - H314

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : Danger
Hazardous ingredients : Sodium hydroxide
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage
Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear face protection, protective clothing, protective gloves
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture
Fructose Test
Safety Data Sheet


Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash affected clothing before reuse.
First-aid measures after eye contact: Remove contact lenses, if possible. Rinse immediately with plenty of water. Obtain medical attention if pain, blinding or redness persist.
First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No open fire. Do not smoke.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls/personal protection.
## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for safe handling**

Washes hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures**

Comply with applicable regulations.

**Storage conditions**

- Keep container closed when not in use.
- Keep only in the original container in a cool, well ventilated place away from direct (sun)light.
- Do not freeze.
- Do not use after expiry date.

**Incompatible products**

- Strong bases. Strong acids.

**Incompatible materials**

- Sources of ignition. Direct (sun)light. Heat sources.

**Storage temperature**

- 2 - 8 °C

### 7.3. Specific end use(s)

See instructions for use delivered with the device.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety. Avoid all unnecessary exposure.

**Personal protective equipment**

- Wear fire/flame resistant/retardant clothing.
- Complete suit protecting against chemicals, flame retardant antistatic protective clothing.  The type of protection must be selected according to the concentration and volume of the dangerous substance at the specific workplace.
- Wear protective 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 meet the specifications of Regulation EU 2016/425 and the standard EN374.
- Wear protective mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eye/Face protection**

- Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Respiratory protection**

- Wear appropriate mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Other information**

- Do not eat, drink or smoke during use. Do not pipette liquid using a mouth pipette.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state**

- Liquid

**Colour**

- Colourless.

**Odour**

- Odourless.

**Odour threshold**

- No data available

**pH**

- No data available

**Relative evaporation rate (butylacetate=1)**

- No data available

**Melting point**

- No data available

**Boiling point**

- No data available

**Auto-ignition temperature**

- No data available

**Decomposition temperature**

- No data available

**Flammability (solid, gas)**

- Non flammable

**Vapour pressure**

- No data available

**Relative vapour density at 20 °C**

- No data available

**Relative density**

- No data available

**Solubility**

- No data available
Fructose Test
Safety Data Sheet

according to Regulation (EC) No. 453/2010

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Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition generates corrosive vapours.

10.2. Chemical stability
Stable after transport (max. 5 days) at elevated temperatures (≤ 37°C). Stable for 12 months after date of manufacture.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Direct (sun)light. Extremely high or low temperatures. Open fire.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified
Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/irritation: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
Fructose Reagent 4
Persistence and degradability: Not established.

12.3. Bioaccumulative potential
Fructose Reagent 4
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Avoid release to the environment
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

Product meets requirements for Dangerous Goods in Excepted Quantities.

14.1. UN number
UN-No. (ADR) : 1824
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : 1824
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name
Proper Shipping Name (ADR) : SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)
ADR
Transport hazard class(es) (ADR) : 8
Hazard labels (ADR) : 8

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : 8

ADN
Transport hazard class(es) (ADN) : Not applicable

RID
Transport hazard class(es) (RID) : Not applicable

14.4. Packing group
Packing group (ADR) : II
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable
14.5. Environmental hazards

Dangerous for the environment: No
Marine pollutant: No
Other information: No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR): C5
Limited quantities (ADR): 1L
Excepted quantities (ADR): E2
Packing instructions (ADR): P001, IBC02
Mixed packing provisions (ADR): MP15
Portable tank and bulk container instructions (ADR): T7
Portable tank and bulk container special provisions (ADR): TP2
Tank code (ADR): L4BN
Vehicle for tank carriage: AT
Transport category (ADR): 2
Hazard identification number (Kemler No.): 80
Orange plates: 

Tunnel restriction code (ADR): E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information


Other information: None.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Skin Corr. 1B: H314

Full text of H-phrases:

Skin Corr. 1A: Skin corrosion/irritation, Category 1A
Skin Corr. 1B: Skin corrosion/irritation, Category 1B
H314: Causes severe skin burns and eye damage

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
- Product form: Mixture
- Product name: Fructose Test Standard
- Product code: FRUCTO_ST
- GMDN code: 53278

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
- Industrial/Professional use specific: For professional use only
- Use of the substance/mixture: The Fructose Test is a photometric test for quantifying fructose in human seminal plasma.

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
FertiPro N.V.
Industrieplein Noord 32
8730 Beernem
Belgium
info@fertipro.com

1.4. Emergency telephone number
Emergency number: +3250791805

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
- Classification according to Regulation (EC) No. 1272/2008 [CLP]
  - Not classified
- Adverse physicochemical, human health and environmental effects
  - No additional information available

2.2. Label elements
- Labelling according to Regulation (EC) No. 1272/2008 [CLP]
  - No labelling applicable

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance
- Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrapure water</td>
<td>(CAS No) 7732-18-5</td>
<td>&gt;= 99</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>(EC no) 200-333-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fructose</td>
<td>(CAS No) 57-48-7</td>
<td>0.1-1</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>(EC no) 200-333-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium azide</td>
<td>(CAS No) 26628-22-8</td>
<td>&lt; 0.1</td>
<td>Acute Tox. 2 (Oral), H300</td>
</tr>
<tr>
<td></td>
<td>(EC no) 247-852-1</td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td></td>
<td>(EC index no) 011-004-00-7</td>
<td></td>
<td>Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash affected clothing before reuse.

First-aid measures after eye contact: Remove contact lenses, if possible. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Remove ignition sources. Use special care to avoid static electric charges. No open fire. Do not smoke.

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Section 8. Exposure controls/personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from direct (sun)light. Do not freeze. Do not use after expiry date.
Incompatible products: Strong bases. Strong acids.
Storage temperature: 2-8°C

7.3. Specific end use(s)
See instructions for use delivered with the device.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available
Exposure controls

- **Appropriate engineering controls**: Handle in accordance with good industrial hygiene and safety. Avoid all unnecessary exposure.
- **Personal protective equipment**: Wear fire/flame resistant retardant clothing.
- **Skin protection**: Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protection must be selected according to the concentration and volume of the dangerous substance at the specific workplace.
- **Hand protection**: Wear protective 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 meet the specifications of Regulation EU 2016/425 and the standard EN374.
- **Eye/Face protection**: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Respiratory protection**: Wear appropriate mask. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- **Other information**: Do not eat, drink or smoke during use. Do not pipette liquid using a mouth pipette.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- **Physical state**: Liquid
- **Colour**: Colourless.
- **Odour**: Odourless.
- **Odour threshold**: No data available
- **pH**: No data available
- **Relative evaporation rate (butylacetate=1)**: No data available
- **Melting point**: No data available
- **Freezing point**: No data available
- **Boiling point**: No data available
- **Flash point**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: Non flammable
- **Vapour pressure**: No data available
- **Relative vapour density at 20 °C**: No data available
- **Relative density**: No data available
- **Solubility**: No data available
- **Log Pow**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: No data available
- **Explosive properties**: No data available
- **Oxidising properties**: No data available
- **Explosive limits**: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable after transport (max. 5 days) at elevated temperatures (≤ 37°C). Stable for 12 months after date of manufacture.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct (sun)light. Extremely high or low temperatures. Open fire.
10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Smoke. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potential adverse human health effects and symptoms</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
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</table>

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Fructose Test Standard</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established.</td>
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</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Fructose Test Standard</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Dispose in a safe manner in accordance with local/national regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper Shipping Name (ADR)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR</th>
<th>Not applicable</th>
</tr>
</thead>
</table>
Fructose Test
Safety Data Sheet
according to Regulation (EC) No. 453/2010

1. Identification

1.1. Product identification
Fructose Test Reagent

1.2. Supplier identification

1.3. Types of packaging

2. Hazard identification

2.1. Identification of hazards to health and safety

2.1.1. Acute Tox. 2 (Oral)
Acute toxicity (oral), Category 2

2.1.2. Aquatic Acute 1
Hazardous to the aquatic environment — Acute Hazard, Category 1

2.1.3. Aquatic Chronic 1
Hazardous to the aquatic environment — Chronic Hazard, Category 1

2.1.4. H300
Fatal if swallowed

2.1.5. H400
Very toxic to aquatic life

2.1.6. H410
Very toxic to aquatic life with long lasting effects

2.2. Hazard classification and labeling

2.2.1. Classification

2.2.2. Labeling

2.3. Further information

3. Emergency measures

3.1. Spill response procedures

3.2. Fire-fighting measures

3.3. Protective equipment

3.4. Advice for medical personnel

4. Transport information

4.1. Transport risk phrases

4.2. Transport safety phrases

5. Handling and storage

5.1. Precautions for safe handling

5.2. Precautions for safe storage

6. Exposure controls/Personal protection

6.1. Control parameters

6.2. Personal protective equipment

7. Physical and chemical properties

7.1. Information on physical and chemical properties

8. Stability and reactivity

8.1. Stable under normal use conditions

9. Fire and explosive hazards

9.1. Stability

9.2. Flammability

9.3. Special消防 handling aspects

10. Stability

10.1. Reaction tendencies

11. Toxicological information

11.1. Acute oral exposure

11.2. Acute dermal exposure

11.3. Acute inhalation exposure

11.4. Chronic or repeated exposure

12. Ecological information

12.1. Toxicity to terrestrial arthropods

12.2. Toxicity to aquatic organisms

12.3. Mobility in soil

12.4. Persistence

12.5. Bioaccumulation

12.6. Other adverse effects on the environment

13. Disposal considerations

13.1. Disposal methods

13.2. Precautions to be taken when disposing of empty containers

14. Transport information

14.1. Transport risk phrases

14.2. Transport safety phrases

14.3. Packing group

14.4. Environmental hazards

14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

16. Other information

16.1. Data sources

16.2. Full text of H- and EUH-phrases:

16.3. SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.