# LeucoScreen Reagent 1 / LeucoScreen Reagent 2

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

**Id:** FP09 I05 R02  **Revision date:** 01/10/2018  **Version:** E.2

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

#### 1.1. Product identifier
- **Product form:** Mixture
- **Product name:** LeucoScreen Reagent 1
- **Product code:** Leuco_1
- **GMDN:** 55963

#### 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:** LeucoScreen is a diagnostic kit for the staining of white blood cells in human sperm or 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

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### 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. 4 (Inhalation:dust,mist) H332
- Carc. 1A H350
- STOT SE 1 H370

**Adverse physicochemical, human health and environmental effects**

No additional information available

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### 2.2. Label elements

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

- **Signal word (CLP):** Danger
- **Hazard pictograms (CLP):**
  - GHS02
  - GHS06
  - GHS08
  
- **Hazardous ingredients:** benzidine, 1,1'-biphenyl-4,4'-diamine, 4,4'-diaminobiphenyl, biphenyl-4,4'-ylenediamine, methanol
- **Hazard statements (CLP):**
  - H225 - Highly flammable liquid and vapour
  - H301+H311 - Toxic if swallowed or in contact with skin
  - H332 - Harmful if inhaled
  - H350 - May cause cancer
  - H370 - Causes damage to organs
- **Precautionary statements (CLP):**
  - P202 - Do not handle until all safety precautions have been read and understood
  - 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, forearms and face thoroughly after handling
  - P270 - Do not eat, drink or smoke when using this product
  - P280 - Wear protective gloves, protective clothing, face protection, eye protection

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**01/10/2018 EN (English)**

**Id:** FP09 I05 R02  **Pages:** 1/15
LeucoScreen Reagent 1 / LeucoScreen Reagent 2
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Reagent 1: Data sheets 1>7 // Reagent 2: Data sheets 8>15

P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER
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
P308+P313 - IF exposed or concerned: Get medical advice/attention

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>
</table>
| Methanol | (CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X | 45 - 50 | Flam. Liq. 2, H225  
Acute Tox. 3 (Inhalation), H331  
Acute Tox. 3 (Dermal), H311  
Acute Tox. 3 (Oral), H301  
STOT SE 1, H370 |
| Ultrapure water | (CAS No) 7732-18-5 (EC no) 231-791-2 | 45 - 50 | Not classified |
| Phloxine-B | (CAS No) 18472-87-2 (EC no) 242-325-6 | 0.1 - 1 | Not classified |
| Benzidine, 1,1'-biphenyl-4,4'-diamine, 4,4'-diaminobiphenyl, biphenyl-4,4'-ylenediamine | (CAS No) 92-87-5 (EC no) 202-199-1 (EC index no) 612-042-00-2 | 0.1 - 1 | Carc. 1A, H350  
Acute Tox. 4 (Oral), H302  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410 |

3.3. Other hazards
No additional information available

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). Call a poison center or doctor/physician. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a poison center doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/ Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.

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

Symptoms/injuries : Causes damage to organs.
Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause cancer by 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 naked lights. 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

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and 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.

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. No naked lights. No smoking. Use only non-sparking tools. Avoid breathing vapours. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions: Keep container closed when not in use. Keep only in the original container 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 - 25 °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.
LeucoScreen Reagent 1 / LeucoScreen Reagent 2
Safety Data Sheet
 according to Regulation (EC) No. 453/2010
Reagent 1: Data sheets 1>7 // Reagent 2: Data sheets 8>15

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 EU-directive 89/686/EEC and the standard EN374 derived from it.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Orange to red.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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 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 flame.

10.5. Incompatible materials

Strong acids. Strong bases.
10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled.
Irritation: Not classified
Corrosivity: Not classified
Sensitisation: Not classified
Repeated dose toxicity: Not classified
Carcinogenicity: May cause cancer (if inhaled, in contact with skin, if swallowed).
Mutagenicity: Not classified
Toxicity for reproduction: Not classified
Potential adverse human health effects and symptoms: Harmful if inhaled. Toxic if swallowed. Toxic in contact with skin.

SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
LeucoScreen Reagent 1
Persistence and degradability: Not established.

12.3. Bioaccumulative potential
LeucoScreen 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

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
# LeucoScreen Reagent 1 / LeucoScreen Reagent 2
## Safety Data Sheet
according to Regulation (EC) No. 453/2010

### Reagent 1: Data sheets 1-7 // Reagent 2: Data sheets 8-15

#### 14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport hazard class(es) (ADR)</td>
<td>3 (6.1)</td>
</tr>
<tr>
<td>Hazard labels (ADR)</td>
<td>3, 6.1</td>
</tr>
</tbody>
</table>

Product meets requirements for Dangerous Goods in Excepted Quantities.

| Transport hazard class(es) (IMDG) | Not applicable |
| Transport hazard class(es) (IATA) | 3 |
| Transport hazard class(es) (ADN) | Not applicable |
| 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 |
| Special provisions for carriage - Operation (ADR) | S2, S19 |
LeucoScreen Reagent 1 / LeucoScreen Reagent 2
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Reagent 1: Data sheets 1>7 // Reagent 2: Data sheets 8>15

| Hazard identification number (Kemler No.) | : 336 |
| Orange plates | |
| Tunnel restriction code (ADR) | : D/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]:

| Flam. Liq. 2 | H225 |
| Acute Tox. 3 (Oral) | H301 |
| Acute Tox. 3 (Dermal) | H311 |
| Acute Tox. 4 (Inhalation;dust,mist) | H332 |
| Carc. 1A | H350 |
| STOT SE 1 | H370 |

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal) Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation) Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A Carcinogenicity, Category 1A
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
H302 Harmful if swallowed
H311 Toxic in contact with skin
H331 Toxic if inhaled
H350 May cause cancer
H370 Causes damage to organs
H400 Very toxic to aquatic life
H410 Very 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

01/10/2018 EN (English) ID: FP09 I05 R02 7/15
# LeucoScreen Reagent 1 / LeucoScreen Reagent 2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### Reagent 1: Data sheets 1>7 // Reagent 2: Data sheets 8>15

## 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>LeucoScreen Reagent 2</td>
</tr>
<tr>
<td>Product code</td>
<td>Leuco_2</td>
</tr>
<tr>
<td>GMDN</td>
<td>59963</td>
</tr>
</tbody>
</table>

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

#### 1.2.1. Relevant identified uses

<table>
<thead>
<tr>
<th>Industrial/Professional use spec</th>
<th>For professional use only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the substance/mixture</td>
<td>LeucoScreen is a diagnostic kit for the staining of white blood cells in human sperm or seminal plasma</td>
</tr>
</tbody>
</table>

#### 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]

- Oxidising Liquids, Category 1: H271
- Acute toxicity (oral), Category 4: H302
- Acute toxicity (inhalation:dust,mist), Category 4: H332
- Skin corrosion/irritation, Category 1A: H314
- Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation: H335

Full text of H statements : 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]

<table>
<thead>
<tr>
<th>Hazard pictograms (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS03</td>
</tr>
<tr>
<td>GHS05</td>
</tr>
<tr>
<td>GHS07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal word (CLP)</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard statements (CLP)</td>
<td>H271 - May cause fire or explosion; strong oxidiser</td>
</tr>
<tr>
<td></td>
<td>H302+H332 - Harmful if swallowed or if inhaled</td>
</tr>
<tr>
<td></td>
<td>H314 - Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td></td>
<td>H335 - May cause respiratory irritation</td>
</tr>
</tbody>
</table>

| Precautionary statements (CLP) | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking |
|-------------------------------| P220 - Keep/Store away from clothing and other combustible materials |
|                               | P260 - Do not breathe dust/fume/gas/mist/vapours/spray |
|                               | P264 - Wash hands, forearms and face thoroughly after handling |
|                               | P270 - Do not eat, drink or smoke when using this product |
|                               | P280 - Wear protective gloves, protective clothing, face protection |
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 peroxide 3%</td>
<td>(CAS No) 7722-84-1 (EC no) 231-765-0 (EC index no) 008-003-00-9</td>
<td>100</td>
<td>Ox. Liq 1 H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314</td>
</tr>
</tbody>
</table>

Full text of H-statements: 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: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact: IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician.

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

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

Symptoms/injuries after inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation.

Symptoms/injuries after ingestion: 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: May cause fire or explosion; strong oxidiser.

Explosion hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

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 the environment. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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: No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.
LeucoScreen Reagent 1 / LeucoScreen Reagent 2
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Reagent 1: Data sheets 1>7 // Reagent 2: Data sheets 8>15

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. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Additional hazards when processed: Hazardous waste due to potential risk of explosion.
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. Take any precaution to avoid mixing with combustibles/... Use only in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.
Storage conditions: Keep container closed when not in use. Keep only in the original container away from direct sunlight. Keep in fireproof place. Do not freeze. Do not use after expiry date. Keep only in the original container in a cool, well ventilated place away from sources of ignition. Direct sunlight. Heat sources. combustible materials.
Incompatible products: Strong bases. Strong acids.
Storage temperature: 2 - 25 °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 EU-directive 89/686/EEC and the standard EN374 derived from it.
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.
**LeucoScreen Reagent 1 / LeucoScreen Reagent 2**

Safety Data Sheet

according to Regulation (EC) No. 453/2010

**Reagent 1: Data sheets 1>7  //  Reagent 2: Data sheets 8>15**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>odourless.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>May cause fire or explosion; strong oxidiser.</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**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

May cause fire or explosion; strong oxidiser. Stable after transport (max. 5 days) at elevated temperature (≤37°C). May cause fire or explosion; strong oxidiser.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid


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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Oral: Harmful if swallowed.</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Inhalation; dust, mist: Harmful if inhaled.</td>
</tr>
<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>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
</tbody>
</table>
**LeucoScreen Reagent 1 / LeucoScreen Reagent 2**

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

**Reagent 1: Data sheets** 1>7  //  **Reagent 2: Data sheets** 8>15

<table>
<thead>
<tr>
<th>Specific target organ toxicity (single exposure)</th>
<th>May cause respiratory irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Additional information</td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Potential adverse human health effects and symptoms</td>
<td>Harmful if swallowed. Harmful if inhaled.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1. Toxicity

- **Acute aquatic toxicity**: Not classified
- **Chronic aquatic toxicity**: Not classified

#### 12.2. Persistence and degradability

**LeucoScreen Reagent 2**

- **Persistence and degradability**: Not established.

#### 12.3. Bioaccumulative potential

**LeucoScreen Reagent 2**

- **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

- **Additional information**: Avoid release to the environment

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- **Product/Packaging disposal recommendations**: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

- **Additional information**: Hazardous waste due to potential risk of explosion.

- **Ecology - waste materials**: Avoid release to the environment

### SECTION 14: Transport information

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

#### 14.1. UN number

<table>
<thead>
<tr>
<th>UN-No. (ADR)</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No. (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>UN-No. (IATA)</td>
<td>2014</td>
</tr>
<tr>
<td>UN-No. (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>UN-No. (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

#### 14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper Shipping Name (ADR)</th>
<th>HYDROGEN PEROXIDE, AQUEOUS SOLUTION</th>
</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>
<tr>
<td>Transport document description (ADR)</td>
<td>UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II, (E)</td>
</tr>
<tr>
<td>Transport document description (IATA)</td>
<td>UN 2014 , 5.1</td>
</tr>
</tbody>
</table>

#### 14.3. Transport hazard class(es)

**ADR**

| Transport hazard class(es) (ADR) | 5.1 (8) |

01/10/2018  EN (English)  ID: FP09 I05 R02  12/15
LeucoScreen Reagent 1 / LeucoScreen Reagent 2
Safety Data Sheet
according to Regulation (EC) No. 453/2010
Reagent 1: Data sheets 1>7 // Reagent 2: Data sheets 8>15

<table>
<thead>
<tr>
<th>Danger labels (ADR)</th>
<th>: 5.1, 8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="image1.png" alt="Danger labels image" /></td>
</tr>
<tr>
<td>Product meets requirements for Dangerous Goods in Excepted Quantities.</td>
<td></td>
</tr>
</tbody>
</table>

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

**IATA**
Transport hazard class(es) (IATA) : 5.1

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

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

### 14.4. Packing group

<table>
<thead>
<tr>
<th>Packing group (ADR)</th>
<th>: II</th>
</tr>
</thead>
<tbody>
<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>
<td>: Not applicable</td>
</tr>
</tbody>
</table>

### 14.5. Environmental hazards

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

### 14.6. Special precautions for user

**- Overland transport**

| Classification code (ADR) | : OC1 |
| Limited quantities (ADR) | : 1l |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P504, IBC02 |
| Special packing provisions (ADR) | : PP10, B5 |
| Mixed packing provisions (ADR) | : MP15 |
| Portable tank and bulk container instructions (ADR) | : T7 |
| Portable tank and bulk container special provisions (ADR) | : TP2, TP6, TP24 |
| Tank code (ADR) | : L4BV(+) |
| Tank special provisions (ADR) | : TU3, TC2, TE8, TE11, TT1 |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV24 |
| Hazard identification number (Kemler No.) | : 58 |

01/10/2018 EN (English) ID: FP09 I05 R02
**LeucoScreen Reagent 1 / LeucoScreen Reagent 2**

*Safety Data Sheet*

according to Regulation (EC) No. 453/2010

*Reagent 1: Data sheets 1>7 // Reagent 2: Data sheets 8>15*

### Orange plates

![Orange plates](image)

<table>
<thead>
<tr>
<th>Tunnel restriction code (ADR)</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAC code</td>
<td>2P</td>
</tr>
</tbody>
</table>

**- Transport by sea**

No data available

**- Air transport**

No data available

**- Inland waterway transport**

No data available

**- Rail transport**

No data available

14.7. **Transport in bulk according to Annex II of MARPOL 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**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. **National regulations**

**Germany**

VwVwS Annex reference: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen: None of the components are listed

SZW-lijst van mutagene stoffen: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: None of the components are listed

**Denmark**

Recommendations Danish Regulation: Young people below the age of 18 years are not allowed to use the product

15.2. **Chemical safety assessment**

No chemical safety assessment has been carried out

### SECTION 16: Other information


Other information: None.

Full text of R-, H- and EUH-statements:

- **Acute Tox. 4 (Inhalation:dust,mist)**: Acute toxicity (inhalation:dust,mist) Category 4
- **Acute Tox. 4 (Oral)**: Acute toxicity (oral), Category 4

01/10/2018 EN (English) ID: FP09 I05 R02
LeucoScreen Reagent 1 / LeucoScreen Reagent 2
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Reagent 1: Data sheets 1>7  //  Reagent 2: Data sheets 8>15

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation, Category 1A</td>
</tr>
<tr>
<td>H271</td>
<td>May cause fire or explosion; strong oxidiser</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

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.