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

1.1. Product identifier

Product form : Mixture
Product name : Hydrotint Synthetic Iron Oxide Yellow Liquid
Product code : A550

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

1.3. Details of the supplier of the safety data sheet

Huntsman Pigments Americas LLC
P.O. Box 4980
The Woodlands, 77387
T 301 210 3400/ 323 269 7311
MSDS@huntsman.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300 or (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Skin Sens. 1 H317
STOT SE 2 H371
STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) :
H317 - May cause an allergic skin reaction
H371 - May cause damage to organs
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash ... thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - If on skin: Wash with plenty of water/...
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see ... on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable
### SECTION 3: Composition/information on ingredients

3.1. **Substance**

Not applicable

3.2. **Mixture**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>(CAS No) 107-21-1</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3-one</td>
<td>(CAS No) 2634-33-5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.8</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 28, H320 STOT SE 2, H371 STOT RE 2, H373</td>
</tr>
<tr>
<td>0.1</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1, H400</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**

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**First-aid measures after skin contact**

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see ... on this label). Wash contaminated clothing before reuse. Gently 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.

**First-aid measures after ingestion**

Rinse mouth. Do NOT induce vomiting.

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

**Symptoms/injuries after inhalation**

May cause an allergic skin reaction.

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

No additional information available

### SECTION 5: Firefighting measures

5.1. **Extinguishing media**

**Suitable 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**

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 dust/fume/gas/mist/vapors/spray.

**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
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 vapor. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Hydrotint Synthetic Iron Oxide Yellow Liquid

<table>
<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Benzisothiazolin-3-one (2634-33-5)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ethylene Glycol (107-21-1)</th>
<th>ACGIH TWA (mg/m³)</th>
<th>ACGIH Remark (ACGIH)</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>URT &amp; eye irr</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Personal protective equipment: Avoid all unnecessary exposure. Wash ... thoroughly after handling.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information: Do not eat, drink or smoke during use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Color: Colorless
Odor: Characteristic
Odor threshold: No data available
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
### Hydrotint Synthetic Iron Oxide Yellow Liquid
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
</tbody>
</table>
| Solubility                                    | Water: Solubility in water of component(s) of the mixture:  
  - 1,2-Benzisothiazolin-3-one: 0.02 ppm (at 26 °C) |
| Log Pow                                       | No data available                          |
| Log Kow                                       | No data available                          |
| Auto-ignition temperature                     | No data available                          |
| Decomposition temperature                     | No data available                          |
| Viscosity                                     | No data available                          |
| Viscosity, kinematic                          | No data available                          |
| Viscosity, dynamic                            | 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**
Not established.

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

**10.4. Conditions to avoid**
Direct sunlight. Extremely high or low temperatures.

**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

**1,2-Benzisothiazolin-3-one (2634-33-5)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1020 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>1020.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

**Ethylene Glycol (107-21-1)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
<td>500.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Not classified

**Serious eye damage/irritation**: Not classified

**Respiratory or skin sensitization**: May cause an allergic skin reaction.

**Germ cell mutagenicity**: Not classified

**Carcinogenicity**: Not classified

**Reproductive toxicity**: Not classified

**Specific target organ toxicity (single exposure)**: May cause damage to organs.

**Specific target organ toxicity (repeated exposure)**: May cause damage to organs through prolonged or repeated exposure.
Section 5: Aspiration hazard
Not classified

Section 6: Potential adverse human health effects and symptoms
Based on available data, the classification criteria are not met.

Section 6: Symptoms/injuries after inhalation
May cause an allergic skin reaction.

Section 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
Hydrotint Synthetic Iron Oxide Yellow Liquid
Persistence and degradability: Not established.

12.3. Bioaccumulative potential
Hydrotint Synthetic Iron Oxide Yellow Liquid
Bioaccumulative potential: Not established.

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on the global warming: No known ecological damage caused by this product.

Section 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to...

Ecology - waste materials: Avoid release to the environment.

Section 14: Transport information

Transport by sea
No additional information available

Air transport
No additional information available

Section 15: Regulatory information

15.1. US Federal regulations
1,2-Benzisothiazolin-3-one (2634-33-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
### Ethylene Glycol (107-21-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313
RQ (Reportable quantity, section 304 of EPA's List of Lists) 5000 lb

### 15.2. International regulations

#### CANADA

<table>
<thead>
<tr>
<th>1,2-Benzisothiazolin-3-one (2634-33-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
</tbody>
</table>
WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

#### EU-Regulations

<table>
<thead>
<tr>
<th>1,2-Benzisothiazolin-3-one (2634-33-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
</tbody>
</table>

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Not classified

#### National regulations

<table>
<thead>
<tr>
<th>1,2-Benzisothiazolin-3-one (2634-33-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
</tr>
<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
</tr>
</tbody>
</table>

### 15.3. US State regulations

Ethylene Glycol (107-21-1)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Other information : None.

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2B</td>
<td>Serious eye damage/eye irritation Category 2B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization Category 1</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity (repeated exposure) Category 2</td>
</tr>
<tr>
<td>STOT SE 2</td>
<td>Specific target organ toxicity (single exposure) Category 2</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H371</td>
<td>May cause damage to organs</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
</tbody>
</table>
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 therefore not be construed as guaranteeing any specific property of the product.