Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code          S090
Product Name          HallBrite EZ-FLO TDX

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

Recommended Use      Personal Care Ingredient
Uses advised against  Industrial Use

1.3. Details of the supplier of the safety data sheet

Manufacturer          The HallStar Company
                       120 S. Riverside Plaza, Suite 1620
                       Chicago, IL 60606 USA
                       PH: 877-427-4255

For further information, please contact

1.4. Emergency telephone number

Emergency Telephone   Chemtrec 1-800-424-9300
Europe                +1 (703) 527 3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

2.2. Label elements

Product identifier

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>REACH Registration No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triceteareth-4 Phosphate</td>
<td>-</td>
<td>-</td>
<td>&lt;5</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Remove to fresh air.

Skin contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

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

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2), Water spray (fog). Dry chemical.

5.2. Special hazards arising from the substance or mixture

No information available

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment as required.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Collect spillage.

6.3. Methods and material for containment and cleaning up

Methods for containment
Steps to be Taken in Case Material is Released or Spilled: Dike and contain the spill with inert material (ie: sand, earth,sawdust) and transfer liquid and solid diking material to separate containers for recovery or disposal. Wash floor area with hotwater solution. Remove contaminated clothing and wash before reuse. Wash affected skin areas with soap
and water. Keep spills out of all sewers and bodies of water.

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections
See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling
Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities
Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep at temperatures between 0 and 38 °C.

Incompatible materials
Bulk TiO2 reacts violently with lithium at 200 deg C.

7.3. Specific end use(s)
Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>13463-67-7</td>
<td></td>
<td>TWA: 4 mg/m³</td>
<td>STEL: 30 mg/m³</td>
<td>TWA: 10 mg/m³</td>
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</tr>
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<td></td>
<td></td>
<td>STEL: 12 mg/m³</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Italy</th>
<th>Portugal</th>
<th>Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
<td>-</td>
<td>-</td>
<td>TWA: 6 mg/m³</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Derived No Effect Level (DNEL) | No information available. |
| Predicted No Effect Concentration (PNEC) | No information available. |

8.2. Exposure controls
Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment
Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
Suitable protective clothing.
Environmental exposure controls No information available.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid Dispersion</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>white liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>low odor</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>&gt; 260 °C</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Evaporation rate</td>
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<td>Flammability Limit in Air</td>
<td>17.5</td>
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</tr>
<tr>
<td>Upper flammability limit:</td>
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<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
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<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>17.5</td>
<td>No information available</td>
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<tr>
<td>Vapor density</td>
<td>1.4 nominal</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
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<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>negligible</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>negligible</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>1.4 nominal</td>
<td>No information available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

- VOC Content (%): No information available
- Density: No information available
- Bulk density: No information available
- Volatility: No information available

### Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable under normal conditions.

Explosion data:
- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

#### 10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions
None under normal processing.

#### 10.4. Conditions to avoid

Temperatures below 0 C should be avoided as this may affect the efficacy of the product. Heat, flames and sparks.

#### 10.5. Incompatible materials

Bulk TiO2 reacts violently with lithium at 200 deg C.

#### 10.6. Hazardous decomposition products

Carbon oxides.
Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

**Product Information**
Product does not present an acute toxicity hazard based on known or supplied information.

<table>
<thead>
<tr>
<th>Inhalaion</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>No data available.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No data available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**Unknown acute toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50 (mg/kg)</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>&gt; 10000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation No information available.
Serious eye damage/eye irritation No information available.
Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive toxicity No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects
Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- **Waste from residues/unused products**: Disposal should be in accordance with applicable regional, national and local laws and regulations.
- **Contaminated packaging**: Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

**IMDG**
- **14.1 UN/ID No.**: Not regulated
- **14.2 Proper shipping name**: Not regulated
- **14.3 Hazard Class**: Not regulated
- **14.4 Packing Group**: Not regulated
- **14.5 Marine pollutant**: Not applicable
- **14.6 Special Provisions**: None
- **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**: No information available

**RID**
- **14.1 UN/ID No.**: Not regulated
- **14.2 Proper shipping name**: Not regulated
- **14.3 Hazard Class**: Not regulated
- **14.4 Packing Group**: Not regulated
- **14.5 Environmental hazard**: Not applicable
- **14.6 Special Provisions**: None

**ADR**
- **14.1 UN/ID No.**: Not regulated
- **14.2 Proper shipping name**: Not regulated
- **14.3 Hazard Class**: Not regulated
- **14.4 Packing Group**: Not regulated
- **14.5 Environmental hazard**: Not applicable
- **14.6 Special Provisions**: None

**IATA**
- **14.1 UN/ID No.**: Not regulated
- **14.2 Proper shipping name**: Not regulated
- **14.3 Hazard Class**: Not regulated
- **14.4 Packing Group**: Not regulated
- **14.5 Environmental hazard**: Not applicable
- **14.6 Special Provisions**: None

Section 15: REGULATORY INFORMATION

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

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents.
Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories
TSCA
DSL/NDSL
EINECS/ELINCS
ENCS
IECSC
KECL
PICCS
AICS

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment
No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend
SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value * Skin designation

Prepared By AAC
Issue Date 06-Jul-2016
Revision Date 28-Sep-2016
Revision Note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet