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

1.1. Product identifier

Product Code: H024
Product Name: HALLSTAR® PEG 400 DO

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

Recommended Use: No information available

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
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

Product identifier
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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</th>
<th>REACH Registration No.</th>
</tr>
</thead>
</table>

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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: Dry chemical, CO2 or water spray.

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: Ensure adequate ventilation, especially in confined areas.

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. Keepspills 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.

Incompatible materials
None known based on information supplied.

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
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
Tight sealing safety 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</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>yellow/ amber color @ 25° C liquid</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>fatty 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>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7 °C</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>n/a</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>271 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
</tr>
</tbody>
</table>
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosion data</td>
<td>None</td>
</tr>
<tr>
<td>Sensitivity to Mechanical Impact</td>
<td>None</td>
</tr>
<tr>
<td>Sensitivity to Static Discharge</td>
<td>None</td>
</tr>
</tbody>
</table>

10.3. Possibility of hazardous reactions
Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
None under normal use conditions.

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>Route</th>
<th>Data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No data available</td>
</tr>
<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
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

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
No information available

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 at work

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  Complies
DSL/NDSL  Complies
EINECS/ELINCS  Complies
ENCS  Complies
IECSC  Complies
**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**

<table>
<thead>
<tr>
<th>TWA</th>
<th>TWA (time-weighted average)</th>
<th>STEL</th>
<th>STEL (Short Term Exposure Limit)</th>
<th>Skin designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling</td>
<td>Maximum limit value</td>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Issue Date**

15-Apr-2015

**Revision Date**

13-Jun-2018

**Revision Note**

Not applicable.

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

End of Safety Data Sheet