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

1.1 Product identifier

Trade name: ECOS Spray Starch

Description / Product Code: 9757

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

No further relevant information available.

Application of the substance / the mixture: Fabric treatment spray for use when ironing

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Venus Labs/dba Earth Friendly Products
111. S Rohlwing Rd Addison, IL 60101
Phone: 800-451-9304
Chemtrec: 800-424-9300

1.4 Emergency telephone number:

Emergency telephone number: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:
This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP: Void

Signal word: Void

Hazard pictograms: Void

Hazard statements: Void

Precautionary statements: P102 Keep out of reach of children.

Additional information:

Regulation (EC) No 648/2004 on detergents / Labelling for contents

| non-ionic surfactants | < 5% |

(Contd. on page 2)
Trade name: ECOS Spray Starch

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description:
Mixture consisting of substances that either not classified or not required to be stated in the Safety Data Sheet according to Reg. (EU) 830/2015.

Ingredients according Regulation (EU) 830/2015:
- CAS: 97375-27-4
- EINECS: 306-683-4
- Sodium Coco-Sulfate

Additional information: For the wording of the listed hazard phrases refer to section 16.

H315 Skin irritation Cat 2
H318 Serious eye damage Cat 1
H412 Hazardous to the aquatic environment Chronic 3
1-3%

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
No special measures required.
Take affected persons out into the fresh air.

After inhalation: Seek medical treatment in case of complaints.

After skin contact:
Remove contaminated clothing.
In case of skin irritation, consult a physician.

After eye contact:
Rinse opened eye for at least 15 minutes under running water.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:
Drink plenty of water and provide fresh air. Call for a doctor immediately.
Seek immediate medical advice.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.
Trade name: ECOS Spray Starch

5.3 Advice for firefighters
Protective equipment: No special measures required.
Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
6.1.2 For emergency responders Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: No special measures required.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).
6.4 Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage
7.1 Precautions for safe handling No special precautions are necessary if used correctly.
Information about fire - and explosion protection: No special measures required.
7.2 Conditions for safe storage, including any incompatibilities
Storage: Store in cool, dry conditions in well sealed receptacles.
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
64-17-5 ethanol
WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm
DNELs
Ethanol cas number: 64-17-5
Workers long-term exposure systemic effects via inhalation route: 950 mg/m³
Workers acute/short term exposure local effects: 1900 mg/m³
Workers systemic effects long-term exposure via dermal route: 343 mg/kg bw/day
General Population systemic effects long-term exposure via inhalation route: 114 mg/m³
General Population local effects acute/short term exposure via inhalation route: 950 mg/m³
General Population systemic effects long term exposure via dermal route: 206 mg/kg bw/day
General Population systemic effects long term exposure via oral route: 87 mg/kg bw/day
PNECs
Ethanol cas number: 64-17-5
Freshwater: 0.96 mg/l
Marine water: 0.79 mg/l  
Intermittent releases: 2.75 mg/l  
STP: 580 mg/l  
Sediment (freshwater): 3.6 mg/kg sediment dw  
Sediment (marine water): 2.9 mg/kg sediment dw  
Soil: 0.63 mg/kg soil dw

**DNEL Workers Long term exposure local effects**
Ethanol (CAS 64-17-5)  
Inhalation: 1900 mg/m³

**DNEL Workers Long term exposure systemic effects**
Ethanol (CAS 64-17-5)  
Inhalation: 950 mg/m³  
Skin Contact: 343 mg/kg bw/day

**DNEL Consumers Acute/short term exposure Local effects**
Ethanol (CAS 64-17-5)  
Inhalation: 950 mg/m³

**DNEL Consumers Long-term exposure systemic effects**
Ethanol (CAS 64-17-5)  
Inhalation: 114 mg/m³  
Skin Contact: 206 mg/kg bw/day

### 8.2 Exposure controls

**Personal protective equipment**

**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Protection of hands:** Not required under normal conditions of use.

**Penetration time of glove material**
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

**Eye protection:**
If splashing is possible wear safety goggles.
Not required under normal conditions of use.

**Body protection:** Not required under normal conditions of use.

### SECTION 9: Physical and chemical properties

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

**General Information**

**Appearance:**

- **Form:** Liquid
- **Colour:** Not determined
- **Odour:** Characteristic
- **Odour threshold:** Not determined

(Contd. on page 5)
**Trade name:** ECOS Spray Starch

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH value:</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Melting point/Melting range:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>Not Flammable</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Self-igniting:</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lower:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Upper:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Oxidising properties:</strong></td>
<td>Not considered as oxidising.</td>
</tr>
<tr>
<td><strong>Vapour pressure:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with water:</strong></td>
<td>Fully miscible</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dynamic:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Kinematic:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>9.2 Other information:</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

10.1 **Reactivity** Stable under normal conditions.
10.2 **Chemical stability** Material is stable under normal conditions.
10.3 **Thermal decomposition / conditions to be avoided** Stable at environment temperature.
10.4 **Possibility of hazardous reactions** No dangerous reactions known.
10.5 **Conditions to avoid** No further relevant information available.
10.6 **Incompatible materials** No further relevant information available.
10.7 **Hazardous decomposition products** No dangerous decomposition products known.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50</th>
<th>LC50/4 h (vapour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethanol</td>
<td>7060 mg/kg (rat)</td>
<td>20000 mg/l (rat)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50</th>
<th>LC50/4 h (vapour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethanol</td>
<td>7060 mg/kg (rat)</td>
<td>20000 mg/l (rat)</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Ethanol, cas: 64-17-5

Fish toxicity LC50:> 10000 mg/l

Daphnia toxicity, CEE0:> 7800 mg/l

Bacterial toxicity (Ps putida) CEE0:> 6500 mg/l

Algal toxicity (SC. Quadricauda), CEE0:> 5000 mg/l

Algal toxicity (M. Acruginosa), CEE0:> 1450 mg/l

12.2 Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.
### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Recommendation**
- Dispose according to National Regulations.

- Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

**Uncleaned packaging:**
**Recommendation:**
- Disposal must be made according to official regulations.
- Packaging may be reused or recycled after cleaning.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN-Number</th>
<th>ADR, ADN, IMDG, IATA</th>
<th>Void</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>ADR, ADN, IMDG, IATA</td>
<td>Void</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>ADR, ADN, IMDG, IATA</td>
<td>Void</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>ADR, IMDG, IATA</td>
<td>Void</td>
</tr>
<tr>
<td>14.5 Environmental hazards:</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>14.7 Transport in bulk according to Ann ex II of Marpol and the IBC Code</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td>Void</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2015/830
CLP Regulation 1272/2008/EC
Constituents of the mixture that fall within the scope of REACH Regulation 1907/2006/EC, have been (pre)-
registered from their suppliers.
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at
work.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of
pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57
It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific
product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H225 Highly flammable liquid and vapour.

Training hints
Suitable training on safety in handling, storing and converting the product should be given to the employees based on
all the existing information.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
Trade name: ECOS Spray Starch

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2

* Data compared to the previous version altered.*