Section 1. Identification

GHS product identifier : Bulk Solar Salt containing YPS
Chemical name : Sodium Chloride
Other means of identification : Salt, solar salt, industrial salt, sea salt
Product type : Solid.
Supplier/Manufacturer : ALPHA COMMODITIES
                        Promenade-Noir 1,
                        CH-2001 Neuchatel
                        Switzerland
Emergency telephone number (with hours of operation) : +972 9 9545584
e-mail address of person responsible for this SDS : info@alphacommodities.net

Section 2. Hazards identification

Classification of the substance or mixture : ACUTE TOXICITY: ORAL - Category 5
GHS label elements
Signal word : Warning
Hazard statements : May be harmful if swallowed.
Precautionary statements
Prevention : Not applicable.
Response : IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
Storage : Not applicable.
Disposal : Not applicable.
Other hazards which do not result in classification : Not available.

Section 3. Composition/information on ingredients

Substance/mixture : Substance
Chemical name : Sodium Chloride
Other means of identification : Salt, solar salt, industrial salt, sea salt

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium chloride</td>
<td>&gt;96</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>water</td>
<td>&lt;4</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>tetrasodium hexacyanoferrate</td>
<td>0.002 - 0.01</td>
<td>13601-19-9</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.
Section 4. First aid measures

Description of necessary first aid measures

Inhalation : Move exposed person to fresh air. Get medical attention if symptoms occur.
Ingestion : Wash out mouth with water. Get medical attention if symptoms occur. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Skin contact : Wash with soap and water. Get medical attention if symptoms occur.
Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : Slight irritant. Can cause gastrointestinal disturbances.
Skin contact : Slight irritant. May cause skin dryness and irritation.
Eye contact : Slight irritant. May cause eye irritation.

Over-exposure signs/symptoms

Inhalation : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments : Not available.
Notes to physician : No specific treatment. Treat symptomatically.
Protection of first-aiders : No special protection is required. See Section 8 for information on appropriate personal protective equipment.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.
Not suitable : None known.
Specific hazards arising from the chemical : No specific fire or explosion hazard.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
halogenated compounds
metal oxide/oxides
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : Put on appropriate personal protective equipment (see Section 8).
Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up

Small spill : Recycle, if possible. Waste must be disposed of according to applicable regulations.
Large spill : Approach release from upwind. Recycle, if possible. Waste must be disposed of according to applicable regulations. Avoid creating dusty conditions and prevent wind dispersal. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Section 7. Handling and storage

Precautions for safe handling : Avoid creating dusty conditions and prevent wind dispersal. Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Avoid creating dusty conditions and prevent wind dispersal. May corrode metallic surfaces and glass. Store in a polyethylene container.

Section 8. Exposure controls/personal protection

Control parameters

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium chloride</td>
<td>ACGIH TLV (United States, 2/2010). TWA: 1 mg/m³, (as Fe) 8 hour(s).</td>
</tr>
<tr>
<td>water</td>
<td></td>
</tr>
<tr>
<td>tetrabutylammoniumborate ferrate</td>
<td></td>
</tr>
</tbody>
</table>

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Avoid creating dusty conditions and prevent wind dispersal.

Individual protection measures

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection : Wear suitable gloves.

Eye protection : Safety eyewear should be used when there is a likelihood of exposure. Recommended: If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection : No special protective clothing is required. Recommended: overall.

Section 9. Physical and chemical properties

Appearance

| Physical state | Solid. |
| Color          | Clear. White. |
| Odor           | Odorless. |
| Odor threshold | Not applicable.
| pH             | 7 [Conc. (% w/w): 1%] |
| Melting point  | 801°C (1473.8°F) |
| Boiling point  | 1413°C (2575.4°F) |
| Flash point    | Not applicable. |
| Burning time   | Not applicable. |
| Burning rate   | Not applicable. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Lower and upper explosive (flammable) limits | Not available. |
| Vapor pressure | Not available. |
| Vapor density  | Not available. |
| Relative density | Not available. |
| Bulk Density   | 1.15 [g/cm³] |

Version : 1.02  Date of issue/Date of revision : 5/23/2011.
Section 9. Physical and chemical properties

- **Granulometry:** Not available.
- **Solubility:** Soluble in the following materials: cold water and hot water.
- **Partition coefficient: n-octanol/water:** Not applicable.
- **Auto-ignition temperature:** Not applicable.
- **Decomposition temperature:** Not applicable.
- **SADT:** Not available.
- **Viscosity:** Not applicable.

Section 10. Stability and reactivity

- **Chemical stability:** The product is stable.
- **Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.
- **Conditions to avoid:** None known.
- **Incompatible materials:** Reactive or incompatible with the following materials: organic materials and metals. Bromine trifluoride, lithium.
- **Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure

- **Inhalation:** No known significant effects or critical hazards.
- **Ingestion:** May be harmful if swallowed.
- **Skin contact:** No known significant effects or critical hazards.
- **Eye contact:** No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- **Inhalation:** No specific data.
- **Ingestion:** No specific data.
- **Skin contact:** No specific data.
- **Eye contact:** No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>LD50 Intraperitoneal</td>
<td>Rat</td>
<td>2600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LDLo Intraperitoneal</td>
<td>Rat</td>
<td>3.72 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LDLo Subcutaneous</td>
<td>Rat</td>
<td>3500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Tetrasodium hexacyanoferrate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>15600 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Conclusion/Summary:** Very low toxicity to humans or animals.

**Irritation/Corrosion**

**Conclusion/Summary**

- **Skin:** Slightly irritating to the skin. Fully reversible.
- **Eyes:** Mildly irritating to the eyes. Fully reversible in 7 days or less.
- **Respiratory:** Not available.

**Sensitization**

**Conclusion/Summary**

- **Skin:** Not available.
- **Respiratory:** Not available.

**Potential chronic health effects**

- **General:** No known significant effects or critical hazards.
- **Inhalation:** No known significant effects or critical hazards.
- **Ingestion:** No known significant effects or critical hazards.

Version: 1.02 Date of issue/Date of revision: 5/23/2011.
Section 11. Toxicological information

Skin contact: No known significant effects or critical hazards.
Eye contact: No known significant effects or critical hazards.
Carcinogenicity: Not available.
Mutagenicity: Not available.
Teratogenicity: Not available.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: Not available.

Chronic toxicity
Conclusion/Summary: Not available.

Carcinogenicity
Conclusion/Summary: Not available.

Mutagenicity
Conclusion/Summary: Not available.

Teratogenicity
Conclusion/Summary: Not available.

Reproductive toxicity
Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>3094.1 mg/kg</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

Ecotoxicity: No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium chloride</td>
<td>Acute EC50 2122.55 to 2644 mg/L Fresh water</td>
<td>Daphnia - Ceriodaphnia dubia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 402600 ug/L Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6390000 to 7070000 g/L Fresh water</td>
<td>Fish - Pimephales promelas - 6 days</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6.57 to 6.7 g/L Fresh water</td>
<td>Fish - Pimephales promelas - 6 days</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 5.84 to 6.08 g/L Fresh water</td>
<td>Fish - Lepomis macrochirus - 5 to 9 cm - 1 to 9 g</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3.05 to 5.91 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1.47 to 1.57 g/L Fresh water</td>
<td>Daphnia - Daphnia pulex</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 2000 to 2500 mg/L Fresh water</td>
<td>Daphnia - Ceriodaphnia dubia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1661 mg/L Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6094 to 7824 mg/L Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;10000 ppm Fresh water</td>
<td>Crustaceans - Asselus communis</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;5600 ppm Fresh water</td>
<td>Crustaceans - Asselus communis</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 16500000 to 33000000 ug/L Marine water</td>
<td>Crustaceans - Crangon crangon - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6180000 ug/L Fresh water</td>
<td>Fish - Carassius auratus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6170000 ug/L Fresh water</td>
<td>Fish - Carassius auratus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 6094000 to 78240000 ug/L Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 50000000 ug/L Fresh water</td>
<td>Fish - Morone saxatilis - Fingerling</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 44000000 to 65000000 ug/L Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>24 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 33180000 ug/L Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 33100000 ug/L Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 19600000 ug/L Fresh water</td>
<td>Daphnia - Ceriodaphnia dubia - &lt;24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1294600 ug/L Fresh water</td>
<td>Fish - Lepomis macrochirus - 5 to 9 cm - 1 to 9 g</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 10000000 ug/L Fresh water</td>
<td>Fish - Morone saxatilis - LARVAE</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Version: 1.02
Date of issue/Date of revision: 5/23/2011.
Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Chloride</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Mobility in soil**

- **Soil/water partition coefficient (Koc)**: Not available.
- **Mobility**: Not available.
- **Other adverse effects**: No known significant effects or critical hazards.

**Persistence/degradability**

- **Conclusion/Summary**: Not available.

**Bioaccumulative potential**

- **Conclusion/Summary**: Not available.

Section 13. Disposal considerations

- **Disposal methods**: Recycle, if possible. The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Section 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ADR/RID Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>IATA Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

PG*: Packing group

Section 15. Regulatory information

- **Safety, health and environmental regulations specific for the product**: No known specific national and/or regional regulations applicable to this product (including its ingredients).

**A. Regulation according to ISHA**

- **ISHA Article 37**: None of the components are listed.
- **ISHA Article 38**: None of the components are listed.

**B. Regulation according to TCCA**

- **TCCA Toxic chemicals**: Not applicable
- **TCCA Observational chemicals**: None of the components are listed.
- **TCCA Article 32 (Banned)**: None of the components are listed.
- **TCCA Article 32 (Restricted)**: None of the components are listed.
- **TCCA Article 17 (TRI)**: None of the components are listed.
- **Korea inventory**: All components are listed or exempted.

**C. Dangerous Materials Control Act**: Not available.
Section 15. Regulatory information

D. Wastes regulation: Dispose of contents and container in accordance with all local, regional, national and international regulations.

E. Regulation according to other foreign laws

Europe inventory: All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Section 16. Other information

History
Date of issue/Date of revision: 5/23/2011.
Date of previous issue: No previous validation.
Version: 1.02

Notice to reader
To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.