SAFETY DATA SHEET

1. Identification

Product identifier: PURTABS

Other means of identification

Product number: ESPT13.1G

Recommended use: Effervescent disinfectant tablets

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name: EarthSafe Chemical Alternatives
Address: 145 Wood Road, Braintree, MA 02184

Telephone: Phone: 866-666-2305

Website: www.earthsafeca.com

Emergency phone number: CHEMTREC 1-800-424-9300

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards

Acute toxicity, oral Category 4
Acute toxicity, dermal Category 4
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards: Not applicable

OSHA defined hazards: Not classified.

GHS label elements

Hazard statement: Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life.

Label elements

Signal word: Warning

Prevention

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing. Wear eye/face protection.

Response

Collect spillage. IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and safe to do so. Continue rinsing. Get medical attention if irritation develops or persists. IF SWALLOWED: Call a physician or poison control center immediately. If conscious, drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. IF ON SKIN: Wash off immediately with plenty of soap and water. Remove and wash contaminated clothing before reuse. Get medical attention if irritation develops or persists. IF INHALED: Move to fresh air. If a person feels unwell, contact a physician or medical personnel.

Storage

Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information 51.79% of the mixture consists of component(s) of unknown acute dermal toxicity. None of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. Contact with acids liberates toxic gas.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloroisocyanuric acid, sodium salt</td>
<td></td>
<td>2893-78-9</td>
<td>45 - &lt;50</td>
</tr>
<tr>
<td>Adipic acid</td>
<td></td>
<td>124-04-9</td>
<td>35 - &lt;40</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td></td>
<td>497-19-8</td>
<td>10 - &lt;15</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td></td>
<td></td>
<td>1 - &lt;5</td>
</tr>
</tbody>
</table>

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and safe to do so. Continue rinsing. Get medical attention if irritation develops or persists. Continue rinsing. Get medical attention if irritation develops or persists.

Skin contact
Wash off immediately with plenty of soap and water. Remove and wash contaminated clothing before reuse. Get medical attention if irritation develops or persists.

Ingestion
Call a physician or poison control center immediately. If conscious, drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Inhalation
Move to fresh air. If a person feels unwell, contact a physician or medical personnel.

Notes to physician
Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

4. Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

5. Fire-fighting measures

Suitable extinguishing media
Flood with water.

Unsuitable extinguishing media
Not available.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Collect spillage. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Use care in handling/storage. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
</tr>
<tr>
<td>Adipic acid (CAS 124-04-9)</td>
</tr>
<tr>
<td>TWA</td>
</tr>
<tr>
<td>Value 5 mg/m3</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear protective gloves.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance: tablet
Color: white - off white
Odor: slight chlorine
Odor threshold: Not available.
PH: 5.5 - 6.5
Melting point/freezing point: 305.6 °F (152 °C) estimated
Boiling point: Not available.
Flash point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower (%): Not available.
Flammability limit - upper (%): Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Solubility (water): 100 %
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

**Reactivity**
The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**
Material is stable under normal conditions.

**Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use.

**Conditions to avoid**
Contact with incompatible materials.

**Incompatible materials**
Acids. Strong oxidizing agents

**Hazardous decomposition products**
Chlorine. chlorides. Carbon oxides. phosgene

### 11. Toxicological information

**Information on likely routes of exposure**

<table>
<thead>
<tr>
<th>Route</th>
<th>Hazard Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Prolonged inhalation may be harmful. May cause irritation to the respiratory system.</td>
</tr>
</tbody>
</table>

**Symptoms related to the physical, chemical and toxicological characteristics**
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Acute toxicity**
Harmful if swallowed. Harmful in contact with skin. May cause respiratory irritation.

**Carcinogenicity**
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Not listed.

**Reproductive toxicity**
This product is not expected to cause reproductive or developmental effects.

**Chronic effects**
Prolonged inhalation may be harmful.

**Toxicological information**
Occupational exposure to the substance or mixture may cause adverse effects.

### 12. Ecological information

**Ecotoxicity**
Components of this product are hazardous to aquatic life.

**Persistence and degradability**
Based on the biodegradability data of the components, this material is expected to be biodegradable.

**Bioaccumulative potential**
This material does not contain chemicals that have known bioaccumulative potential.

**Other adverse effects**
No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**
Dispose in accordance with all applicable regulations.

**Hazardous waste code**
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information
DOT
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.

15. Regulatory information
US federal regulations
This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Adipic acid (CAS 124-04-9) Listed.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA (Superfund) reportable quantity
Adipic acid: 5000
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance
No
SARA 311/312 Hazardous chemical
No
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. Other information, including date of preparation or last revision
HMIS® ratings
Health: 1
Flammability: 0
Physical hazard: 0
Personal protection: B
PURTABLE 13.1g

NFPA ratings

Health: 1
Flammability: 0
Instability: 0

Revision Information

Hazard(s) identification: <INDENT>Response
Hazard(s) identification: <INDENT>Disposal
GHS: Classification

Issue date
04-22-2014

Revision date
07-08-2014

Version #
03

Further information

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER
CORROSIVE
Causes irreversible eye damage and skin burns.
Harmful if swallowed, inhaled or absorbed through the skin.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.