1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Identity
XSORB® Acid Neutralizing Super Absorbent
Alternate Names
A sodium potassium alumina silicate and sodium carbonate of various compositions. Other inert ingredients are proprietary.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use
See Technical Data Sheet.
Application Method
See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Company Name
Impact Absorbents, Inc
5255 Traffic Way
Atascadero, CA 93422. USA
Emergency
CHEMTREC (USA) (800) 424-9300
Customer Service: Impact Absorbents, Inc 805-466-4709

2. Hazard identification of the product

2.1. Classification of the substance or mixture
Eye Irrit. 2;H319 Causes serious eye irritation.

2.2. Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Warning
H319 Causes serious eye irritation.
[Prevention]:
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and
easy to do - continue rinsing.
P337+313 If eye irritation persists: Get medical advice / attention.

[Storage]:
No GHS storage statements

[Disposal]:
No GHS disposal statements

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Alumina Silicate Perlite CAS Number: 0093763-70-3</td>
<td>50 - 75</td>
<td></td>
<td>[1][2]</td>
</tr>
<tr>
<td>Sodium carbonate CAS Number: 0000497-19-8</td>
<td>25 - 50</td>
<td>Eye Irrit. 2;H319</td>
<td>[1]</td>
</tr>
</tbody>
</table>

[1] Substance classified with a health or environmental hazard.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove the person to fresh air. Get medical attention if irritation or discomfort persists.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Wash with plenty of soap and water. Cover the irritated skin with an emollient. Remove and wash contaminated clothing and shoes. Get medical attention if irritation persists.

Ingestion
Drink large amounts of water. Do not induce vomiting. Get medical attention.

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

Overview
Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).
Target Organs: Eyes, skin, and lungs

Potential Chronic Health Effects: Repeated or prolonged exposure to the substance can produce target organ damage.
See section 2 for further details.

Eyes
Causes serious eye irritation.
5. Fire-fighting measures

5.1. Extinguishing media
Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Reacts with Hydrofluoric Acid to form toxic silicon tetra fluoride gas, carbon monoxide, carbon dioxide, toxic fumes of sodium oxide.

5.3. Advice for fire-fighters
Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Sodium carbonate may explode when applied to red-hot aluminum. Sodium carbonate can ignite and burn fiercely in contact with fluoride. Sodium carbonate in contact with fluorine decomposed at ordinary temperature with incandescence.

None applicable if product is unused. If used to absorb flammable liquids, then consult SDS of the flammable liquid.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
Sweep with broom or vacuum into a suitable disposal container. Wear appropriate personal protection. Avoid creating dusty conditions. Comply with state and local regulations for disposal of these products. If used to collect liquid material, dispose in compliance with SDS of collected liquid.

7. Handling and storage

7.1. Precautions for safe handling
Wear appropriate personal protection. Remove material after absorption has taken place. Reseal container after use to prevent evaporation of wetting agent. Wash thoroughly after use.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities
Handle containers carefully to prevent damage and spillage.

Incompatible materials: Hydrofluoric Acid, strong oxidizing agents, metals, fluorine, hydrogen peroxide, phosphorus pentoxide, 2, 4, 6-trinitrotoluene, 2, 4-dinitrotoluene, lime dust + moisture
Store in a closed container in a dry place away from incompatible materials.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)
8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000497-19-8</td>
<td>Sodium carbonate</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0093763-70-3</td>
<td>Amorphous Alumina Silicate Perlite</td>
<td>OSHA</td>
<td>TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000497-19-8</td>
<td>Sodium carbonate</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
<tr>
<td>0093763-70-3</td>
<td>Amorphous Alumina Silicate Perlite</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Respiratory: We recommend use of NIOSH approved dust respirator.

Eyes: Safety glasses/goggles are recommended.

Skin: Wear gloves and body covering clothing to prevent skin exposure.

Engineering Controls: A system of local and/or general exhaust may be used to keep exposures as low as possible.

Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White or Buff aggregate or powder Solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>11.3</td>
</tr>
</tbody>
</table>
Melting point / freezing point 850 degrees F
Initial boiling point and boiling range 1600 degrees F
Flash Point Non-flammable
Evaporation rate (Ether = 1) Not Measured
Flammability (solid, gas) Not Applicable
Upper/lower flammability or explosive limits Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa) Negligible
Vapor Density Not Measured
Specific Gravity Neutral=2.28
Solubility in Water 8% Slightly
Partition coefficient n-octanol/water (Log Kow) Not Measured
Auto-ignition temperature Not Measured
Decomposition temperature Not Measured
Viscosity (cSt) Not Measured
9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.
10.2. Chemical stability
Stable under normal circumstances.
10.3. Possibility of hazardous reactions
No data available.
10.4. Conditions to avoid
Incompatible materials, dust generation, excess heat, moist air.
10.5. Incompatible materials
Hydrofluoric Acid, strong oxidizing agents, metals, fluorine, hydrogen peroxide, phosphorus pentoxide, 2, 4, 6-trinitrotoluene, 2, -4-dinitrotoluene, lime dust + moisture
10.6. Hazardous decomposition products
Reacts with Hydrofluoric Acid to form toxic silicon tetra fluoride gas, carbon monoxide, carbon dioxide, toxic fumes of sodium oxide.

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50</th>
<th>Skin LD50</th>
<th>Inhalation</th>
</tr>
</thead>
</table>

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Safety Data Sheet  
XSORB® Acid Neutralizing Super Absorbent  
SDS Revision Date: 12/23/2014

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>mg/kg</th>
<th>Vapor LD50, mg/L/4hr</th>
<th>Dust/Mist LD50, mg/L/4hr</th>
<th>Gas LD50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Alumina Silicate Perlite - (93763-70-3)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Sodium carbonate - (497-19-8)</td>
<td>4,090.00, Rat - Category: 5</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product’s ATE (Acute Toxicity Estimate).

**Classification**

<table>
<thead>
<tr>
<th>Hazard Description</th>
<th>Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**12. Ecological information**

**12.1. Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Alumina Silicate Perlite - (93763-70-3)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium carbonate - (497-19-8)</td>
<td>300.00, Lepomis macrochirus</td>
<td>265.00, Daphnia magna</td>
<td>242.00 (72 hr), Freshwater Algae</td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

There is no data available on the preparation itself.
12.3. Bioaccumulative potential
Not Measured
12.4. Mobility in soil
No data available.
12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.
12.6. Other adverse effects
No data available.

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

<table>
<thead>
<tr>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
</tbody>
</table>

14.1. UN number
Not Applicable
14.2. UN proper shipping name
Not Applicable
14.3. Transport hazard class(es)
DOT Hazard Class: Not Applicable
DOT Label: ---
IMDG: Not Applicable
Sub Class: Not Applicable
14.4. Packing group
Not Applicable

14.5. Environmental hazards
IMDG
Marine Pollutant: No
14.6. Special precautions for user
No further information

15. Regulatory information

Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification
D2B

US EPA Tier II Hazards

| Fire: No |
| Sudden Release of Pressure: No |
| Reactive: No |
| Immediate (Acute): Yes |
Delayed (Chronic): No

**EPCRA 311/312 Chemicals and RQs:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**N.J. RTK Substances (>1%):**
Amorphous Alumina Silicate Perlite

**Penn RTK Substances (>1%):**
Amorphous Alumina Silicate Perlite

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### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H319 Causes serious eye irritation.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer’s responsibility to ensure that its activities comply with Federal, State or provincial and local laws.

End of Document