

# MATERIAL SAFETY DATA SHEET

1/1/2011

## 1. Manufacturer's Identification

Manufacturer: Total Eco Solutions, Inc., an affiliate of **Impact Absorbents, Inc.**  
Address: PO Box 1131, Atascadero, CA 93423  
Telephone: 805-466-4709

## 2. Product Identification

Trade Name: **XSORB Caustic Neutralizing Absorbent**  
Product Description: Neutralizing absorbent for caustic liquid spills  
Synonyms: None  
CAS No.: Not applicable to mixtures.  
Molecular Weight: Not applicable to mixtures.  
Chemical Formula: Not applicable to mixtures.  
Product Codes: 4441, 4470

## 3. Composition/Information on Ingredients

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Citric Acid	77-92-9	34%	Yes
Silica, Amorphous	7631-86-9	66%	No

## 4. Hazards Identification

### Emergency Overview

**WARNING! CAUSES SEVERE EYE IRRITATION. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT.**

Health Rating: 1 - Slight  
Flammability Rating: 1 - Slight  
Reactivity Rating: 1 - Slight  
Contact Rating: 2 - Moderate  
Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES  
Storage Color Code: Orange (General Storage)

### Potential Health Effects

**Inhalation:** Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

**Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Extremely large oral dosages may produce gastrointestinal disturbances. Calcium deficiency in blood may result in severe cases of ingestion.

**Skin Contact:** Causes irritation to skin. Symptoms include redness, itching, and pain.

**Eye Contact:** Highly irritating; may also be abrasive.

**Chronic Exposure:** Chronic or heavy acute ingestion may cause tooth enamel erosion.

**Aggravation of Pre-existing Conditions:** No information found.

## 5. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 6. Fire Fighting Measures

**Fire:** Auto ignition temperature: 1011C (1852F). Auto ignition temperature is for citric acid component. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.  
**Explosion:** Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.

**Fire Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

## 7. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

## 8. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 9. Exposure Controls/Personal Protection

### Airborne Exposure Limits:

10 mg/m<sup>3</sup> (TWA) -OSHA Permissible Exposure Limit (PEL):

15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction)

-ACGIH Threshold Limit Value (TLV):

10 mg/m<sup>3</sup> for particulate matter containing no asbestos and < 1% crystalline silica

A4, Not classifiable as a human carcinogen

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:** Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 10. Physical and Chemical Properties

**Appearance:** Yellow / off white crystals or powder.

**Odor:** Odorless.

**Solubility:** Slight (0.1-1%)

**Specific Gravity:** No information found.

**pH:** No information found.

**% Volatiles by volume @ 21C (70F):** 0

**Boiling Point:** No information found.

**Melting Point:** No information found.

**Vapor Density (Air=1):** Not applicable.

**Vapor Pressure (mm Hg):** Not applicable.

**Evaporation Rate (BuAc=1):** No information found.

## 11. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Bromines and oxides of carbon, silicon and sulfur.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities: Do not mix with hydrofluoric acid.** For Citric Acid: Metal nitrates (potentially

explosive reaction), alkali carbonates and bicarbonates, potassium tartrate. Will corrode copper, zinc, aluminum and their alloys. For: Silicate material hydrogen fluoride.

**Conditions to Avoid:** Heat, flame, ignition sources, dusting, moisture and incompatibles.

## 12. Toxicological Information

**Toxicological Data:** For Citric Acid: Oral rat LD50: 3 g/kg; irritation skin rabbit: 500 mg/24H mild; eye rabbit: 750 ug/24H severe

**Carcinogenicity:** IARC category for silica, amorphous (7631-86-9) applies to silicas that may contain crystalline silica. The silica in this product contains less than 0.10% crystalline silica.

<u>Ingredient</u>	-----NTP Carcinogen-----		<u>IARC Category</u>
	<u>Known</u>	<u>Anticipated</u>	
Citric Acid (77-92-9)	No	No	None
Silica, Amorphous (7631-86-9)	No	No	3

## 13. Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

## 14. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**15. Transport Information:** Not regulated.

## 16. Regulatory Information:

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 17. Other Information

**NFPA Ratings:** Health: 2 Flammability: 1 Reactivity: 0

**Label Hazard Warning:** WARNING! CAUSES SEVERE EYE IRRITATION. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT.

**Label Precautions:** Avoid contact with eyes, skin and clothing. Avoid breathing dust.

Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Label First Aid:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases, get medical attention.

**Product Use:** Spill Clean-Up

## Disclaimer:

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