

# Material Safety Data Sheet

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## 1. Product and Company Identification

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Soil Savvy

Supplier: UNIBEST International Corporation  
3301 E. Isaacs Ave.  
Walla Walla, WA 99362

For Non-Emergency Contact: (509) 525-3370

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## 2. Composition/Information on Ingredients

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<u>Primary Components</u>	<u>CAS-No.</u>	<u>Concentration</u>
Styrene copolymer H ion form (or equivalent)	Not Hazardous	40-60%*
Styrene copolymer OH ion form (or equivalent)	Not Hazardous	40-60%*
Water	7732-18-5	40-60%

Note: The "\*" in the concentration column is used to denote 2 or more components whose identical concentrations sum to the total indicated to the left of the asterisk.

Other resin components not otherwise listed are considered proprietary and business sensitive. They are non-hazardous per federal criteria.

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### 3. Hazards Identification

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#### Emergency Overview

#### Appearance

Form	Beads
Color	Amber
Odor	Amine odor

**Hazard Summary:** CAUTION – May Cause eye/skin irritation

#### Potential Health Effects

**Primary Routes of Entry:** Skin contact  
Eye contact

**Eyes:** Direct contact with material can cause the following: slight irritation

**Skin:** Prolonged or repeated skin contact can cause the following: slight irritation

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### 4. First Aid Measures

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**Skin contact:** Wash off with soap and water. If skin irritation persists, call a physician

**Eye contact:** Rinse with plenty of water. If eye irritation persists, consult a specialist.

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### 5. Fire-Fighting Measures

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<b>Flash Point:</b>	Not applicable
<b>Ignition temperature:</b>	500.0 Degrees C (932 Degrees F) estimated
<b>Lower Explosive limit:</b>	Not applicable
<b>Upper Explosive limit:</b>	Not applicable

**Suitable extinguishing media:** Use the following extinguishing media when fighting fires involving this material:  
water spray  
carbon dioxide (CO<sub>2</sub>)  
foam  
dry chemical

**Specific hazards during firefighting:** Toxic fumes are generated when material is exposed to fire or fire conditions. Cool closed containers exposed to fire with water spray

**Special protective equipment for fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Remain upwind. Avoid breathing smoke

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## 6. Accidental Release Measures

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### Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

### Methods for cleaning up:

Keep spectators away

Floor may be slippery; use care to avoid falling

Transfer spilled material to suitable containers for recovery or disposal

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## 7. Handling and Storage

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### Handling

NOTE: This product as supplied is a whole bead resin package in a mesh fabric and may produce slight eye irritation. However, the ground form of this resin should be treated as a severe eye irritant. Worker exposure to ground resins can be controlled with local exhaust ventilation at the point of dust generation, or use of suitable personal protective equipment (dust/mist air-purifying respirator and safety goggles). Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature. Properly designed equipment is vital if these resins are to be used in conjunction with

strong oxidizing agents such as nitric acid to prevent a rapid build-up of pressure and possible explosion. Consult a source knowledgeable in the handling of these materials before proceeding.

### Storage

#### Further Information:

CAUTION: Do not un-pack resin and pack column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause a glass column to shatter.

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## 8. Exposure Controls/ Personal Protection

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### Exposure Limit(s)

Exposure limits are listed below, if they exist.

**Eye protection:** Use safety glasses with side shields (ANSI Z87.1 or approved equivalent)

**Hand protection:** Cotton or canvas gloves can be used

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility.

**Engineering measures:** None required under normal operating conditions

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## 9. Physical and Chemical Properties

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### Appearance

<b>Form</b>	Beads
<b>Color</b>	Amber
<b>Odor</b>	Amine odor

<b>pH</b>	5.0-8.0 Aqueous slurry
<b>Boiling point/range</b>	100 Degrees C (212 Degrees F) Water
<b>Flash point</b>	not applicable
<b>Ignition temperature</b>	500 Degrees C (932 Degrees F) estimated
<b>Lower explosive limit</b>	not applicable
<b>Upper explosive limit</b>	not applicable
<b>Vapor pressure</b>	17.0 mmHg at 20 Degrees C (68 Degrees F)

<b>Water solubility</b>	practically insoluble
<b>Relative density</b>	1.00-1.30
<b>Percent volatility</b>	40-60%

Note: The physical data presented above are typical values and should not be construed as a specification

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## **10. Stability and Reactivity**

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<b>Hazardous reactions</b>	Stable under normal conditions
<b>Materials to avoid</b>	Avoid contact with the following: Strong oxidizers, nitric acid
<b>Hazardous decomposition Products</b>	Thermal decomposition may yield the following; monomer vapors
<b>Polymerization</b>	Product will not undergo polymerization

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## **11. Toxicological Information**

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No data are available for this material. The information shown is based on profiles of compositionally similar materials.

<b>Acute oral toxicity</b>	LD50 rat > 5,000 mg/Kg
<b>Acute dermal toxicity</b>	LD 50 rabbit > 5,000 mg/Kg

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## **12. Ecological Information**

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Limited effects are expected from exposure of the environmental compartments by insoluble plastic beads of large diameter (300 to 1200 microns).

## 13. Disposal Considerations

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### Disposal

**Waste Classification:** When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxic characteristic (TC), however has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Unused material may be incinerated or land filled in facilities meeting local, state, and federal regulations.

**Contaminated packaging:** Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.

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## 14. Transport Information

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**DOT** Not regulated for transport

**IMO/IMDG** Not regulated (Not dangerous for transport)

*Transportation classifications may vary by volume and may be influenced by regional or country variation in regulations*

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## 15. Regulatory Information

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### Workplace Classification

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is not a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS)

**SARA TITLE III: Section 311/312 Categorizations (40 CFR370):** This product is not a hazardous chemical under 29 CFR 1910.1200, and therefore is not covered by Title III of SARA

**SARA TITLE III: Section 313 Information (40 CFR372):** This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

**CERCLA Information (40 CFR302.4)**

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304

**U.S. Toxic Substances Control Act (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory

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## 16. Other Information

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**Hazard Rating**

	Health	Fire	Reactivity
HMIS	1	1	0

**Legend**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>BAc</b>	Butyl Acetate
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>STEL</b>	Short Term Exposure Limit (STEL)
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	Time Weighted Average (TWA)
<b>I</b>	Bar denotes a revision from prior MSDS

*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 given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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 user is responsible for consideration as to use in the environment and potential uptake of trace chemicals and any resulting change that may be the outcome of its use.*