



THE HANSON GROUP, LLC  
GOOD PEOPLE, GREAT SCIENCE

## SAFETY DATA SHEET

HMIS: H = 0, F = 0, R = 0

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier:** TSTAB-801 (SEED)

**Manufacturer:** The Hanson Group LLC  
3044 Adriatic Court  
Peachtree Corners, GA 30071  
770-495-9554

**24 Hour emergency response** 800-424-9300 Chemtrec (USA & Canada)  
703-741-5500 Chemtrec (International)

### SECTION 2. HAZARD(S) IDENTIFICATION

OSHA-USA: Irritant

HMIS Classification: Health = 0, Flammability = 0, Physical Hazards = 0

NFTA Rating: Health = 0, Fire = 0, Reactivity Hazard = 0

Hazard statements-EU H315-Skin Irritation

H319-Eye irritation

H302-Harmful if swallowed

H335-May cause respiratory irritation

Precautionary Statements-EU

P310+P312 If Swallowed: And feeling unwell contact a poison Control Center or physician.

P305+P351+P338 If in Eyes: Rinse cautiously with water for several minutes. If present and easy to do remove contacts. Continue rinsing.

P302+P352 If on Skin: Wash with soap and water.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Formula :** C<sub>11</sub>H<sub>18</sub>N<sub>2</sub>

**CAS-No.:** 42274-15-2

### SECTION 4. FIRST-AID MEASURES

**Eye Contact:** Immediately rinse with water. Continue rinsing for at least 15 minutes. Get medical attention.

**Skin Contact:** Wash with soap and water. If irritation persists get medical attention.

**Ingestion:** Clean and rinse mouth with water. Do Not induce vomiting. If feeling unwell get medical attention.

**Inhalation:** Move to fresh air. Get medical attention if needed.

Notes to physician: Treat symptomatically and supportively.

### SECTION 5. FIRE FIGHTING MEASURES

**Flammability Classification:** Non-flammable

**Flash Point:** NA

**Auto Ignition:** NA

**Burn Rate:** NA

**LEL:** NA

**UEL:** NA

**Hazardous combustion products:** Thermal decomposition can lead to the formation of hazardous and irritating gases and vapors.

**Suitable extinguishing Media:** Water, CO<sub>2</sub>, chemical foam.

**Advice to firefighters:** As in any fire, when appropriate wear self-contained breathing apparatus and protective gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid dust formation and have adequate ventilation. Use appropriate personal protective equipment.

**Environmental Precautions:** Contain and clean up spill. Prevent from entering the environment.

**Methods and materials for containment and cleaning up:** Sweep, shovel or vacuum into a suitable container for reuse or disposal. Avoid creating dust.

## SECTION 7. HANDLING AND STORAGE

Contains finely divide material. Dust suspended in air may ignite with static discharge, spark or flame. Equipment, including venting systems, should be grounded. Provide adequate ventilation in areas of use to remove dust.

DUST EXPLOSION HAZARD CLASS-1 Handling of material should be in accordance with NFFA-68.

If handled with flammable or combustible materials the explosion hazard may increase. Store in a cool dry place. Keep containers tightly closed. Keep away from heat, sparks and open flame. Bulk quantities should be stored in properly designed and installed system consistent with chemical and physical properties described in section 9.

## SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Eye/face Protection:** Tightly fitting safety goggles. Face-shield.

**Skin and body protection:** Wear protective gloves and protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White crystalline powder
BOILING POINT:	(1,013 hPa)
MELTING POINT	Approx. 268 - 275 °C
VAPOUR PRESSURE @ 20°C:	Not applicable
% VOLATILE (by wt.)	0.3% max
DENSITY:	1.119 g/cm <sup>3</sup> (20.2 °C)
pH:	Not applicable
SOLUBILITY IN WATER:	0.139 g/l insoluble (30 °C)
FLAMMABILITY (solid, gas):	Not highly flammable
FLASH POINT:	Not applicable
FLAMMABLE LIMITS:	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

### STABILITY

Stable

### CONDITIONS TO AVOID:

Not known

### MATERIALS TO AVOID:

Strong oxidizing agents

### HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, oxides of nitrogen

### FURTHER INFORMATION:

None

## SECTION 11. TOXICOLOGICAL INFORMATION

Oral LD50 (rat) – acute >5000 mg/kg  
The 4-hour LC50 (rat) is estimated to be >20 mg/l  
Skin irritation (rabbit) >2000 mg/kg

This material caused very slight eye and skin irritation when tested in rabbits

This material did not cause dermal sensitization in the guinea pig maximisation test or the mouse ear swell test.

This material was not mutagenic in the Ames assay and not clastogenic in the Human Lymphocyte Metaphase assay

Direct contact with this material may cause minimal eye and skin irritation.

## SECTION 12. ECOLOGICAL INFORMATION

Respiration Inhibition EC50 value was determined to be >100mg/l for the 3 hour contact period.

Algae (*Selenastrum capricornutum*), 72 hr. EbC50/ErC50 > 0.024 mg/l (Measured concentration); As water accommodating fraction Eb50/ErC50>100mg/l

Water Flea (*Daphnia magna*), 48 hr. EC50> 100mg/l (as Water Accommodating Fraction)

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LC50

Trout 96 hour: >0.24 mg/l

Daphnia 48 hour: >0.27 mg/l

BOD

28 DAY: 18%

OCTANOL/H2O PARTITION COEFF: Log Pow = 4.7

## SECTION 13. DISPOSAL CONSIDERATIONS

**Product and product residues:** Dispose of in accordance with local regulations.

**USEPA / RCRA:** Unused product is not listed as a hazardous waste.

**Contaminated Packaging:** Dispose of in accordance with local regulations. Clean and Recycle packaging when possible.

## SECTION 14. TRANSPORTATION INFORMATION

**US DOT:** Not regulated  
**Canada TDG:** Not regulated  
**IMDG / IMO:** Not regulated  
**ADR:** Not regulated  
**IATA:** Not regulated

## SECTION 15. REGULATORY INFORMATION

### EEC MARKING AND LABELING

Symbol: None Required

R-PHRASES: None

S-PHRASES: None

EINECS info: Product has been notified according to Council Directive 67/548/EEC and its amendments.

## SECTION 16. OTHER INFORMATION

### NFPA HAZARD RATING (National Fire Protection Association)

Fire	FIRE: Materials that must be preheated before ignition can occur.
1	HEALTH: Materials which on exposure under fire conditions
Health 0 0 Reactivity	would offer no hazard beyond that of ordinary combustible material.

REACTIVITY: Materials which in themselves are normally \_\_\_\_\_ stable, even under fire exposure conditions, and which are not

Special reactive with water.

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NA = Not applicable NM = Not measure AP – Approximately

**MANUFACTURER DISCLAIMER:** This SDS to the best of our knowledge conforms to the requirements of OSHA 29 CFR 1910.1200, 91/155/EEC and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Responsibility for the product sold is subject to our standard terms and conditions, a copy of which is available upon request. This company warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, **NO GUARANTEE, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT.** Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Liability by this company for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with the proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.