Material Safety Data Sheet

Stimul-8

Revision Date *16-May-2011*

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name	**Stimul-8**
Use of the Substance/Preparation	Foliar fertilizer
Company/Undertaking Identification	**Taminco Inc.** Two Windsor Plaza, Suite 411 7540 Windsor Drive Allentown, PA 18195 (800) 223-3258
Emergency telephone number	In case of emergency call CHEMTREC 1-800-424-9300 703-527-3887 (International Calls) For product information call (800) 223-3258

2. HAZARDS IDENTIFICATION

Appearance

Clear Colorless liquid, slight Ammoniacal odor

Emergency Overview

- CAUTION!
- May cause eye/skin irritation
- May cause irritation of respiratory tract

Principal Routes of Exposure

- Eye contact
- Skin contact
- Inhalation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
N, P, K, S Liquid fertilizer mixture	Proprietary	-

4. FIRST AID MEASURES

Ingestion

- Call a physician or Poison Control Centre immediately
- Rinse mouth
- Never give anything by mouth to an unconscious person
- Do not induce vomiting without medical advice

Skin Contact

- Remove/Take off immediately all contaminated clothing
- Wash off immediately with soap and plenty of water
- If skin irritation persists, call a physician

Eye Contact
- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
- If eye irritation persists, consult a specialist

Inhalation
- Move to fresh air
- Obtain medical attention

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific methods
- Evacuate personnel to safe areas

Special protective equipment for fire-fighters
- Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent)

Specific hazards
- Burning produces obnoxious and toxic fumes
- Gives off hydrogen by reaction with metals

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
- Wear suitable protective equipment
- Evacuate personnel to safe areas

Environmental Precautions
- Do not flush into surface water or sanitary sewer system
- Report spills as required by local and federal regulations.

Methods for Clean-up
- Prevent further leakage or spillage if safe to do so
- Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceus earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13)

7. HANDLING AND STORAGE

Storage

Technical measures/Precautions
- Protect containers from physical damage
- Store in original container
- Keep container tightly closed

Incompatible products
- acids
- strong oxidizing agents

Specific use(s)
- Keep at temperatures above 2°C

Handling

Technical measures/Precautions
- Empty containers retain product residue and may be hazardous
- Do not contaminate ponds, waterways or ditches with chemical or used container
- It is a violation of Federal Law to use this product in a manner that is inconsistent with its labeling.

Safe handling advice

- Avoid contact with eyes
- Do not breathe vapors or spray mist
- Use only in well-ventilated areas
- Wear personal protective equipment
- Wash hands and face before breaks and immediately after handling the product
- Remove and wash contaminated clothing before re-use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
N, P, K, S Liquid fertilizer mixture	Not listed	None Established

Respiratory Protection

- In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit
- The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
- Handle in accordance with good industrial hygiene and safety practice

Engineering measures

- Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye Protection

- Tightly fitting safety goggles

Hand protection

- PVC disposable gloves
- Impervious gloves
- Request information on glove permeation properties from the glove supplier

Skin Protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place

Other protective equipment

- Ensure that eyewash stations and safety showers are close to the workstation location

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State Aqueous
Liquid
Color Colorless
Odor Slight, Ammoniacal

Important Health Safety and Environmental Information

Boiling Point/Range No data available

Flash Point No data available

Viscosity Not applicable
Vapor Pressure No data available
pH 6,0
Water solubility Miscible

Melting Point/Range	Not applicable
Density	1.15 @ 12 °C
Flammability	The product is not flammable
Autoignition Temperature	No data available

10. STABILITY AND REACTIVITY

Stability
- Stable

Conditions to Avoid
- Strong acids and oxidizing agents
- Do not freeze
- Keep away from heat

Hazardous Decomposition Products
- Ammonia
- hydrogen sulfide
- oxides of phosphorus
- sulphur oxides
- Hydrogen

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Eye Contact Moderate eye irritation

Skin Contact Moderate skin irritation

Inhalation Irritating to respiratory system. Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing, headache and Dizziness.

Ingestion May cause gastrointestinal irritation, headache, Dizziness, nausea and Vomiting.

Chemical Name	IARC	ACGIH	OSHA	NTP
N, P, K, S Liquid fertilizer mixture	Not Listed	Not Listed	Not Listed	Not Listed

Product Information

LC50 Inhalation	Irritating to respiratory system
Eye irritation	Moderate eye irritation
Skin irritation	Moderate skin irritation
Mutagenic Effects	Not reported to be mutagenic
Reproductive toxicity	Not reported to be reprotoxic
Carcinogenic effects	Not reported to be carcinogenic

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	No information available
Toxicity to daphnia	No information available
Toxicity to algae	No information available
Toxicity to bacteria	- No information available

Mobility

No information available

Persistence and Degradability

Soil:
Readily biodegradable

Bioaccumulative Potential

No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods	Dispose of in accordance with local regulations
Contaminated Packaging	Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT	Not regulated
Reportable Quantity (RQ)	None
Marine Pollutant	No
IMDG/IMO	Not regulated
Marine Pollutant	No
IATA	Not regulated

15. REGULATORY INFORMATION

International Inventories

NOTE: X = Listed

Chemical Name	TSCA	EINECS	DSL	ENCS	MITI	AICS	PICCS	IECSC	KECL	NZIoC
N, P, K, S Liquid fertilizer mixture	X									

OSHA HAZARD CLASSIFICATION: Irritant

SARA 311/312 Hazardous Categorization
Acute Health Hazard

SARA TITLE III SECTION 313 INFORMATION:
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

NOTE: X = Listed

CERCLA Hazardous Substances
This product does not contain any RQs or TPQs under this regulation.

State Right-to-Know

NOTE: X = Listed

Chemical Name	PA	NJ	MA
N, P, K, S Liquid fertilizer mixture	X	X	X

California Proposition 65 This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class D2B Toxic materials

Canadian Environmental Protection Act This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. OTHER INFORMATION

HMIS	**Health** 2	**Flammability** 0	**Physical Hazard** 0
NFPA	**Health** 2	**Fire** 0	**Instability** 0

Legend: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Literary Reference Literary Reference -IUCLID CD-ROM, 2000 -TOMES on line

Disclaimer: The information provided on 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 a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet