

## MATERIAL SAFETY DATA SHEET

### CORNBELT N-TENSE

Van Diest Supply Company  
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FOR CHEMICAL EMERGENCY  
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CALL CHEMTREC - DAY OR NIGHT  
1-800-424-9300

### PRODUCT IDENTIFICATION

**Common Name:** Cornbelt N-Tense

**EPA Registration #:** None

**Chemical Class:** Water conditioner and buffer blend

**Synonyms:** fertilizer solution, water softener, buffer, acidifier

**Product Use:** As a water conditioner and buffer for certain pesticide applications. Diluted with water prior to use.

### COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredients >1.0% by weight:** MCDS buffer blend CAS #21351-39-3

**Ingredients on OSHA Hazards List:** None

**Ingredients with Unknown Toxicological Properties:** None

**Ingredient Concentration:** Fertilizer, water conditioner, buffer blend -- 100%

**Exposure Limits for Ingredients:** Recommend following ACGIH TLV's for acids: 8 hour TWA: 1 mg/m<sup>3</sup> and 15 minute STEL: 3 mg/m<sup>3</sup>

### PHYSICAL AND CHEMICAL PROPERTIES

**Odor:** Very slight pleasant odor

**Appearance:** Clear golden yellow colored liquid

**Density:** 1.19 g/ml @ 20°C

**pH:** 2.0-2.5

**Solubility In Water:** Soluble

**Boiling Point:** Not available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Freezing/Melting Point:** Not available

**Evaporation Rate:** Not available

**Water/Oil Partition Coefficient:** Not available

**Viscosity:** 325 cps @ 20°C

### STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions To Avoid:** None

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition:** Decomposition may produce oxides of carbon, nitrogen, and toxic phosphorus compounds.

**Incompatible Materials:** Bases, strong oxidizers and reducing agents, many metals (aluminum)

**HAZARD IDENTIFICATION**

**Eye Contact:** Contact with eyes may result in severe irritation; permanent injury may result

**Skin Contact:** Contact with the skin may result in mild dermatitis. Skin contact may aggravate an existing dermatitis condition

**Inhalation:** May cause irritation and burning to the upper respiratory tract

**Ingestion:** Small amounts of the product aspirated into the respiratory system during ingestion or vomiting may cause severe burns and severe pulmonary injury and in the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

**Chronic Effects:** None known

**Medical Conditions Aggravated:** Persons with pre-existing dermatitis, respiratory disorders, or an allergic history should use extra care in handling this product.

**FIRST AID MEASURES**

If poisoning is suspected, or any symptoms are serious, immediately contact the poison information center, doctor, or nearest hospital. Tell the person contacted the complete product name, and the type and amount of exposure. Describe symptoms, and follow the advice given.

**Eyes:** Flush with running water for at least 15 minutes. Do not permit victim to rub eyes. Get medical attention.

**Skin:** Remove contaminated clothing. Flush hair and clothes for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention.

**Ingestion:** Do not induce vomiting. If victim is fully conscious, immediately give a large amount of water to drink. Never give anything by mouth to a victim who is unconscious or having convulsions. Apply artificial respiration if necessary. Call a doctor or poison control center immediately.

**Inhalation:** Remove to fresh air. If breathing has stopped, give artificial respiration. Keep at rest. Get medical attention.

**ACCIDENTAL RELEASE MEASURES****Steps to be Taken in Case Material is Released or Spilled:**

Corrosive liquid. Stop leak and clean up spills immediately, wearing protective clothing.

**In Case of Major Spill**

Isolate and barricade area and keep bystanders away. Contact local government for advice.

**For Small Spills**

Stop leak, isolate area and contain spill keeping out of sewers and drains. Pump or scoop large amounts of liquid into a disposable container. Absorb remaining liquid or smaller spills with clay, sand, or vermiculite. Sweep up carefully and shovel into a disposable container. Disposal containers must be labeled appropriately. Rinse area with water and soak up with absorbent. Sweep and shovel up into a disposable container. For contaminated soil or gravel, remove 2-3 inches for disposal and replace with fresh soil or gravel.

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Applicable Control Measures**

Ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV listed. Develop written safety and inspection procedures. Warehouses, production areas, parking lots, and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

**Personal Protective Equipment:**

**Respirator:** Use an approved NIOSH respirator if ventilation is not adequate, particularly in hot non-ventilated spaces.

**Eyes:** Wear safety glasses with side shields, goggles, or face shield when direct exposure to product, splash or spray is likely.

**Skin:** Wear full-length work clothing, enclosed boots, and a hat. Wear chemical resistant gloves and an apron if direct contact with the product or spray mix is likely.

**Work Place Exposure Guidelines:** Follow OSHA 29 CFR 1910.134 requirements whenever conditions warrant the use of a respirator.

**HAZARD RATINGS**

(4=Extreme; 3=High; 2=Moderate; 1-Slight; 0=Insignificant)

**NFPA**

Health - 2

Fire - 0

Reactivity - 2

**HMIS**

Health - 2

Fire - 0

Reactivity - 2

**FIRE FIGHTING MEASURES**

**Flashpoint:** >200°F via PMCC

**Flammable Limits:** None established

**Auto Ignition Temperature:** N/A

**Hazardous Combustion Products:** Thermal decomposition may produce oxides or carbon, nitrogen, and sulfur.

**Conditions Under Which Flammability Could Occur:** None

**Extinguishing Media:** Use water spray preferably in the form of a fog, dry chemical, foam, or carbon dioxide. Avoid excess water. If a spill or leak has not ignited, use water spray to disperse the vapors. Treat as a liquid chemical type fire where discharges to the environment are to be controlled as quickly as possible. Use of buildings, area, and equipment is to be prevented until properly decontaminated.

**Sensitivity to Explosion by Mechanical Impact:** No

**Sensitivity to Explosion by Static Discharge:** No

**TOXICOLOGICAL INFORMATION**

**LD50:** Not determined

**LC50:** Not determined

**Irritation Data:** This product will irritate human eyes severely following contact. Frequent or prolonged contact with human skin may burn the skin or possibly cause a skin rash (dermatitis). Skin contact may aggravate an existing dermatitis condition.

**Sensitation:** This product is not expected to cause sensitization

**Carcinogenicity:** Not determined

**Reproductive Toxicity:** Not determined

**Teratogenicity:** Not determined

**Mutagenicity:** Not determined

**Chronic Exposure:** Prolonged or repeated exposure may result in severe irritation or corrosive effects.

**Other Materials That Show Synergistic Toxic Effects Together with this Product:** None

### **ECOLOGICAL INFORMATION:**

No data is available on this product. However, it is recommended that this product, wash or rinse water, and contaminated materials containing this product be kept out of water supplies, ground water, open water, and drainage systems, and away from access by people, animals, and birds.

### **HANDLING AND STORAGE**

**Handling:** Keep out of reach of children, unauthorized persons, and animals. Avoid eye contact and prolonged skin contact. Avoid inhalation of mists. Wear protective clothing and after work, remove protective equipment, and wash hands before eating, smoking, drinking, or using the toilet. Clean up spilled material immediately, and clean clothes, equipment, and work area after use.

**Storage:** Store in original container in a cool, dry, well-ventilated, and secure area. Keep separate from other products to prevent cross contamination. Clean up any spilled material immediately. Will corrode incompatible metals such as aluminum, copper, zinc, and mild steel.

### **DISPOSAL CONSIDERATIONS**

Do not reuse containers. Rinse containers thoroughly three times. Consult state and local governments for advice on waste disposal of empty containers. All recovered material must be packaged, labeled, transported, and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

### **DOT INFORMATION**

**Proper Shipping Name:** Corrosive Liquid, N.O.S. (monocarbamide dihydrogen sulfate), UN1760, 8, PG III

**DOT Hazard Required:** TDG Class 8

**Packing Group:** III

**Note:** DOT regulated Corrosive Liquid, N.O.S., if transported in aluminum, copper, zinc, or mild steel containers. Not Regulated if shipped or packaged in containers such as stainless steel or plastic containers which do not react dangerously with this material.

Ship and store away from food, feed, seed, cosmetics, and medical supplies.

**REGULATORY INFORMATION****311/312 Hazard Categories:**

Acute (immediate)

**313 Reportable Ingredients:**

Phosphoric Acid (CAS #7664-38-2) <0.0001%

Monocarbamide Dihydrogen Sulfate (CAS #21351-39-3) <50%

Butanol (CAS #71-36-3)

Glycol Ethers (Chemical Category N230) <5%

**SARA 302 Extremely Hazardous Substances**

Ethylene Oxide (CAS #75-21-8) <0.0001%

**CERCLA Hazardous Substances**

Ethylene Oxide (CAS #75-21-8) <0.0001%

Acetaldehyde (CAS #75-07-0) <0.0001%

**TSCA Inventory Status:**

This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.

**ADDITIONAL INFORMATION**

Prepared By: Van Diest Supply Co.

Date Prepared: 12-2004

Date Revised: 1-2012

The information, data and recommendations in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information, data, and recommendations set forth herein are believed by Van Diest Supply Co. to be accurate. Van Diest Supply Co. makes no warranties, either expressed or implied, with respect thereto and assumes no liability in connection with any use of such information, data and recommendations.

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