



# VAN DIEST SUPPLY COMPANY

Distributor and Manufacturer of Agricultural Chemicals

## SAFETY DATA SHEET

### 1. IDENTIFICATION

<b>1.1 GHS PRODUCT IDENTIFIER:</b>	<b>CORNBELT® N-TENSE™</b>
<b>1.2 ALTERNATE NAME(S):</b>	None
<b>1.3 CHEMICAL CLASS:</b>	Tank Mix Adjuvant
<b>1.4 ACTIVE INGREDIENT(S):</b>	A proprietary nonionic surfactant blend
<b>1.5 RECOMMENDED USE/RESTRICTIONS:</b>	Please see the label for specific recommendations regarding this product.
<b>1.6 SUPPLIER'S DETAILS:</b>	Van Diest Supply Company 1434 220th Street Post Office Box 610 Webster City, IA 50595-0610
<b>1.7 EMERGENCY PHONE NUMBER:</b>	FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT - CALL CHEMTREC - DAY OR NIGHT - 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

<b>2.1 HAZARD CLASSIFICATIONS:</b>	Serious eye damage/eye irritation	Category 1
	Skin corrosion/skin irritation	Category 1
	Specific Target Organ Toxicity, Single Exposure	Category 3

#### 2.2 GHS LABEL ELEMENTS AND PRECAUTIONARY STATEMENTS:



**DANGER**

#### **HAZARDS:**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

#### **PREVENTION:**

P234	Keep only in original container.
P260	Do not breathe mist/vapors/spray.
P264	Wash hands and other potentially contaminated body parts thoroughly after handling.
P270	Do not eat, drink, and/or smoke when using this product.

#### **RESPONSE:**

P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection and protective gloves.
P301+P312+P330+P331	IF SWALLOWED: Call a Poison Control Center or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting.
P303+P361+P353+P363	IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse.

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**2. HAZARDS IDENTIFICATION, continued****2.2 GHS LABEL ELEMENTS AND PRECAUTIONARY STATEMENTS (continued):****RESPONSE (continued):**

P304+P312+P340	IF INHALED: Call a Poison Control Center or doctor/physician if you feel unwell. Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310	Immediately call a Poison Control Center.
P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363	Wash contaminated clothing before use.

**STORAGE:**

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P406	Store in a corrosive-resistant container or a container with a corrosive-resistant inner liner.

**DISPOSAL:**

P501	Dispose of contents and/or container in accordance with federal, state, and local regulations.
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**2.3 UNCLASSIFIED HAZARDS:** None**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is labeled with the following GHS Classifications, as it contains substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations. This product is a proprietary blend. In accordance with paragraph (i) of § 1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

MATERIAL	GHS CLASSIFICATION			NOTES
A proprietary blend of nonionic surfactant blend, solvents, water conditioners, and diluents.	Corrosive to Metal	1	H290	(1), (2)
	Acute Toxicity	4	H302	
	Corrosive to Skin	1B	H314	
	Corrosive to Eye	1	H318	
	STOT SE	3	H335	

(1) Substance classified with a health or environmental hazard.

(2) Substance with a workplace exposure limit.

**This product contains monocarbamide dihydrogen sulfate, CAS Number 21351-39-3 (20-40%).**

**This product contains the following substances that are subject to the reporting requirements of SARA Title III § 313 and/or have established workplace exposure limits:**

COMPONENT	COMMON NAME/SYNONYMS	CAS NUMBER	PERCENT IN FORMULATION
<i>n</i> -Butyl alcohol	butanol	71-36-3	0.5-1.5%
Ethanolamine	monoethanolamine (MEA)	141-43-5	5.0-10%

**4. FIRST AID MEASURES****4.1 GENERAL FIRST AID RECOMMENDATIONS:**

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

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## 4. FIRST AID MEASURES, continued

### 4.1 GENERAL FIRST AID RECOMMENDATIONS (continued):

<b>INHALATION:</b>	Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, call 911 or an ambulance, and then give artificial respiration if possible. If unconscious, place in recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>EYE CONTACT:</b>	Hold eye open and irrigate copiously with clean, fresh water for at least 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Seek medical advice.
<b>SKIN CONTACT:</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners. Wash contaminated clothing before reuse.
<b>INGESTION:</b>	If accidentally swallowed, obtain medical attention. Keep at rest. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS (ACUTE AND DELAYED):

Overview: No adverse symptoms or effects anticipated under normal handling conditions. See Section 2 - Hazard Identification for details.

<b>INHALATION:</b>	May cause respiratory irritation.
<b>EYE CONTACT:</b>	Causes serious eye damage.
<b>SKIN CONTACT:</b>	Causes severe skin burns and eye damage.
<b>INGESTION:</b>	Harmful if swallowed.

## 5. FIREFIGHTING MEASURES

### 5.1 SUITABLE EXTINGUISHING MEDIA:

Use any Class B fire extinguisher such as a multi-purpose dry chemical, CO<sub>2</sub>, or foam extinguisher to extinguish a small fire in accordance with your company's established expectations.

### 5.2 UNSUITABLE EXTINGUISHING MEDIA:

Class-A only fire extinguishers, such as water-based extinguishers, are not ideal for small fires on this material.

### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No specific hazardous decomposition products have been identified. It is recommended to presume that during a fire, irritating and possibly toxic gases may be generated by partial thermal decomposition or combustion, including oxides of carbon, nitrogen, and/or sulfur, as well as smoke and fumes.

### 5.4 SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS:

Wear full protective clothing and a self-contained breathing apparatus. Use water-spray to cool fire-exposed surfaces and personnel. Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water, and sewers. Do not flush down sewers or other drainage systems.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Keep all sources of ignition away from spill/release. In case of major spill or spillage in a confined space, evacuate the area and check vapor levels.

### 6.2 ENVIRONMENTAL PRECAUTIONS:

Keep spill away from drains, sewers, and bodies of water.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP:

Ventilate the area and avoid breathing vapors or mists. Take the personal protective measures listed in Section 8 - Exposure Control/Personal Protection. Contain and absorb spillage with non-combustible materials (e.g. sand, earth, and/or vermiculite). Place in closed containers outside buildings and dispose of according to the Waste Regulations (see Section 13 - Disposal Considerations). Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains and/or watercourses. If drains, sewers, streams, or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams, or lakes the Environmental Protection Agency should also be informed.

## 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Do not get in eyes, on skin, or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, and/or smoking. Remove contaminated clothing and clean before reuse. Destroy contaminated belts, shoes, and other items that cannot be decontaminated. See Section 2 - Hazard Identification (Storage) for further details.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in tightly closed containers in a dry, well-ventilated area away from excessive heat and incompatibles. Incompatible materials include oxidizing agents, strong acids, strong bases, and/or susceptible metals such as aluminum, tin, lead, and/or zinc. See Section 2 - Hazard Identification (Storage) for further details.

### 7.3 SPECIFIC END USES:

See Technical Data Sheet.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 OCCUPATIONAL EXPOSURE LIMITS:

MATERIAL	CAS #	OSHA PEL	NIOSH REL	ACGIH TLV	CARCINOGEN		
					NTP	IARC	OSHA
A proprietary blend of water conditioners and buffers	N/A	N/A	N/A	N/A	No	No	No
<i>n</i> -Butyl alcohol	71-36-3	100 ppm (300 mg/m <sup>3</sup> )	C: 50 ppm (150 mg/m <sup>3</sup> ) skin	TWA: 15 ppm; C: 30 ppm	No	No	No
Ethanolamine	141-43-5	3 ppm (6 mg/m <sup>3</sup> )	3 ppm STEL: 6 ppm	TWA: 3ppm; STEL: 6 ppm	No	No	No

### 8.2 ENGINEERING CONTROLS:

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits, suitable respiratory protection must be worn.

### 8.3 PERSONAL PROTECTIVE EQUIPMENT:

The following recommendations are suitable for small, incidental contact with this material. Recommendations for commercial or on-farm application of this chemical may be found on the container label and Technical Data Sheet. See Section 2 - Hazard Identification (Prevention) for further details.

<b>EYE CONTACT:</b>	If splashing can be reasonably anticipated, for instance while pouring the product into another container, wear chemical splash goggles or a face shield.
<b>SKIN CONTACT:</b>	Avoid contact with skin. Overalls which cover the body, arms, and legs should be worn. All parts of body should be washed after contact. Where skin contact is possible, wear a suitable barrier such as chemical resistant gloves and chemical apron. Preferred glove materials include: butyl rubber, nitrile, polyethylene, and PVC.
<b>INGESTION:</b>	Do not allow eating, drinking, tobacco use, and/or cosmetic application in areas where there is a potential for exposure to this material.
<b>INHALATION:</b>	A respirator is not normally needed for the incidental handling of this product. For spills or other situations that may generate elevated levels of vapor or dust, use a suitable NIOSH-certified respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Clear, golden yellow liquid
<b>ODOR:</b>	Fatty

**9. PHYSICAL AND CHEMICAL PROPERTIES, continued**

ODOR THRESHOLD:	ND
pH:	2.5-3.5 (1% solution)
MELTING POINT:	ND
BOILING POINT:	ND
FLASH POINT:	>200°F (CC)
EVAPORATION RATE:	ND
FLAMMABILITY:	N/A
UPPER/LOWER EXLOSIVE LIMIT:	ND
VAPOR PRESSURE:	ND
VAPOR DENSITY:	ND
SPECIFIC GRAVITY @ 68°F:	1.20-1.23 @ 68°F
SOLUBILITY:	Soluble
PARTITION COEFFICIENT ( <i>n</i> -Octanol/Water):	ND
AUTO-IGNITION TEMPERATURE:	ND
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY:	ND

ND: No Data; N/A: Not Applicable

**10. STABILITY AND REACTIVITY****10.1 REACTIVITY:**

Reaction with incompatible alkaline materials and susceptible metals (aluminum, tin, lead, zinc) will release flammable hydrogen gas.

**10.2 CHEMICAL STABILITY:**

Stable under normal ambient and anticipated conditions of use.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:**

Flammable hydrogen may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.

**10.4 CONDITIONS TO AVOID:**

Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition. Avoid contact with incompatible materials.

**10.5 INCOMPATIBLE MATERIALS:**

Strong oxidizers, strong bases, aluminum, tin, lead, zinc.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition produces oxides of carbon and nitrogen.

**11. TOXICOLOGICAL INFORMATION****11.1 LIKELY ROUTES OF EXPOSURE:**

Overexposure may occur by inhalation, ingestion, and absorption.

**11.2 SKIN CORROSION/IRRITATION:**

Causes severe skin burns.

**11.3 SERIOUS EYE DAMAGE/IRRITATION:**

Causes serious eye damage.

**11.4 RESPIRATORY OR SKIN SENSITIZATION:**

This material is not suspected of being a sensitizer.

**11.5 GERM CELL MUTAGENICITY:**

This material is not suspected of being mutagenic.

**11. TOXICOLOGICAL INFORMATION, continued**

**11.6 CARCINOGENICITY:**

This material is not suspected of being a carcinogen.

MATERIAL	CARCINOGEN		
	NTP	IARC	OSHA
A proprietary nonionic surfactant blend	No	No	No

**11.7 REPRODUCTIVE TOXICITY:**

This material is not suspected of being a teratogen.

**11.8 STOT-SINGLE EXPOSURE:**

Overexposure by vapor inhalation may cause respiratory irritation.

**11.9 STOT-LONG TERM EXPOSURE:**

This material is not linked to long-term exposure effects.

**11.10 ASPIRATION HAZARD:**

This product does not meet the definition of an aspiration hazard.

**11.11 ACUTE TOXICOLOGY ESTIMATE:**

INGESTION:	ORAL LD <sub>50</sub>
	Category 4; >5,000 mg/kg
SKIN CONTACT:	DERMAL LD <sub>50</sub>
	Category N/A; >5,000 mg/kg
INHALATION:	INHALATION LC <sub>50</sub> (DUST/MIST)
	ND

ITEM	CATEGORY	HAZARD
Acute Toxicity (oral)	4	Harmful if swallowed.
Acute Toxicity (skin)	-	N/A
Acute Toxicity (inhalation)	-	N/A
Skin Corrosion/Irritation	1B	Causes severe skin burns
Eye Damage/Irritation	1	Causes serious eye damage.
Sensitization (skin)	-	N/A
Sensitization (respiratory)	-	N/A
Germ Toxicity	-	N/A
Carcinogenicity	-	N/A
Reproductive Toxicity	-	N/A
Specific Target Organ Single Exposure	3	May cause respiratory irritation.
Specific Target Organ Repeated Exposure	-	N/A
Aspiration Hazard	-	N/A

**12. ECOLOGICAL INFORMATION**

**12.1 ECOTOXICITY:**

As a whole, this product is not determined to be toxic to the aquatic environment. Although, it contains a small concentration of material determined to be moderately toxic to the aquatic environment.

**12.2 PERSISTENCE AND DEGRADABILITY:**

No data.

**12.3 BIOACCUMULATIVE POTENTIAL:**

No data.

**12. ECOLOGICAL INFORMATION, continued****12.4 MOBILITY IN SOIL:**

No data.

**12.5 RESULTS OF PBT & vPvB ASSESSMENT:**

This product contains no PBT/vPvB chemicals.

**12.6 OTHER ADVERSE EFFECTS:**

No data.

**13. DISPOSAL CONSIDERATIONS**

Do not allow into drains or watercourses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this Safety Data Sheet, advice should be obtained from the Waste Regulation Authority, whether or not the special waste regulations apply.

Dispose of contents in accordance with local and national regulations.

**14. TRANSPORT INFORMATION****14.1 DOT/IMDG PROPER SHIPPING NAME:** UN1760, Corrosive Liquid, NOS (monocarbamide dihydrogen sulfate), 8, PGII**14.2 TRANSPORT HAZARD CLASSES:** 8**14.3 PACKING GROUP:** II**14.4 DOT LABEL:** None**14.5 MARINE POLLUTANT:** None**14.6 ICAO/IATA:** See Bill of Lading.**15. REGULATORY INFORMATION****15.1 GENERAL REGULATORY INFORMATION:** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.**15.2 TOXIC SUBSTANCE CONTROL ACT (TSCA):** All ingredients of this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.**15.3 WHMIS CLASSIFICATION:** D2B E**15.4 EPCRA SARA TITLE III CLASSIFICATIONS:****SECTION 311/312 HAZARD CLASSES:**

<b>FIRE:</b>	No
<b>RELEASE OF PRESSURE:</b>	No
<b>REACTIVE:</b>	No
<b>IMMEDIATE (ACUTE):</b>	Yes
<b>DELAYED (CHRONIC):</b>	No

**SECTION 313 CHEMICALS:** *n*-Butyl alcohol**15.5 CERCLA/SARA 302 REPORTABLE QUANTITY:**5,000 lbs (*n*-Butyl alcohol)

Trace contaminants (&gt;0.0%): 1,4-Dioxane, acetaldehyde, diethanolamine, ethylene oxide

**15.6 EPCRA 302 EXTREMELY HAZARDOUS CHEMICALS:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**15. REGULATORY INFORMATION, continued****15.7 PROPOSITION 65 - CARCINOGENS:**

1,4-Dioxane  
Acetaldehyde  
Diethanolamine  
Oxirane

**15.8 PROPOSITION 65 - DEVELOPMENTAL TOXINS:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**15.9 PROPOSITION 65 - FEMALE/MALE REPRODUCTIVE TOXINS:**

Oxirane

**15.10 N.J. RTK SUBSTANCES:**

Ethanolamine  
Glycerol  
*n*-Butyl alcohol

**16. OTHER INFORMATION**

SDS VERSION: 6/10/2020

The information and recommendations contained in this Safety Data Sheet are understood to be correct by Van Diest Supply Company. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Information in this SDS follows different criteria from, and serves a different purpose than the product labeling.