# SAFETY DATA SHEET



#### 1. Identification

Product identifier LONE STAR SPECIAL PREMIX

Other means of identification None

Recommended use Ag Product - Plant Nutrition

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Wilbur-Ellis Company LLC
Address 16300 Christensen Rd. Ste 135

Tukwila, WA 98188

**United States** 

**Telephone** Branded Products Information (800) 500-1698

**E-mail** SDS@wilburellis.com

Emergency phone number Chemtrec - Domestic (800) 424-9300 Chemtrec - International +1 703-741-5970

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if swallowed.

**Precautionary statement** 

**Prevention** Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ethylenediaminetetraacetate-zinc-a mmonia complex		67859-51-2	20 - < 30
Ammonium Hydroxide		1336-21-6	3 - < 5
Zinc Oxide		1314-13-2	3 - < 5
Other components below reportable	levels		60 - < 70

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Material name: LONE STAR SPECIAL PREMIX

### 4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Rinse skin with water/shower. Get medical attention if irritation develops and persists. Skin contact

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delaved

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

Direct contact with eyes may cause temporary irritation.

protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Never return spills to original containers for re-use.

Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 

## 7. Handling and storage

Precautions for safe handling

Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Use care in handling/storage. Avoid prolonged exposure.

Conditions for safe storage. including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type `	, Value	Form
Ammonium Hydroxide (CAS 1336-21-6)	PEL	35 mg/m3	
,		50 ppm	
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
		5 mg/m3	Fume.
		15 mg/m3	Total dust.
<b>US. ACGIH Threshold Limit Values</b>	•		
Components	Туре	Value	Form
Ammonium Hydroxide (CAS 1336-21-6)	STEL	35 ppm	
,	TWA	25 ppm	
Zinc Oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
,	TWA	2 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	Form
Ammonium Hydroxide (CAS 1336-21-6)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
Zinc Oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.

Biological limit values

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

No biological exposure limits noted for the ingredient(s).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

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

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** Clear amber liquid.

Liquid. Physical state Liquid. **Form** Color Amber. Odor Not available. Odor threshold Not available. 10 - 11 pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Flash point Not available.

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper

Flammability limit - lower

(%)

Not available.

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not available.

Vapor density Not available. Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

Pounds per gallon 9.75 1.17 Specific gravity

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and

toxicological characteristics Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

**Test Results** Components **Species** 

Ethylenediaminetetraacetate-zinc-ammonia complex (CAS 67859-51-2)

Acute **Dermal** 

LD50 Rat > 2000 mg/kg, 24 Hours

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Components	Species	Test Results
Inhalation		
Aerosol		
LC50	Rat	> 5.32 mg/l, 4 Hours
		> 1.15 mg/l, 2 Hours
Oral		
LD50	Cat	> 2000 mg/kg
	Rat	>= 2000 mg/kg
Zinc Oxide (CAS 1314-13-2)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Mouse	> 5.7 mg/l, 4 Hours
		2500 mg/m3
	Rat	> 5700 mg/m3, 4 Hours
Oral		
LD50	Mouse	> 5000 mg/kg
	Rat	> 15000 mg/kg
		> 5000 mg/kg
		<b>5 C</b>

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ

Not classified.

toxicity - single exposure Specific target organ

Not classified.

toxicity - repeated

exposure

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings, if applicable, even Contaminated packaging

after container is emptied. Empty containers should be taken to an approved waste handling site

for recycling or disposal.

## 14. Transport information

DOT

UN3082 **UN number** 

**UN proper shipping name** 

Transport hazard class(es)

Environmentally hazardous substances, liquid, n.o.s. (Ammonium Hydroxide RQ = 20492)

9 Class Subsidiary risk 9 Label(s) Packing group Ш

Special precautions for user Not regulated for transportation when shipped in non-reportable quantities. See RQ. Read safety

instructions, SDS and emergency procedures before handling.

**Special provisions** 8, 146, 335, IB3, T4, TP1, TP29

155 Packaging exceptions 203 Packaging non bulk 241 Packaging bulk

**IATA** 

**UN number** UN3082

**UN** proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Ammonium Hydroxide)

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Not established.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN** number

**UN proper shipping name** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ammonium Hydroxide)

Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant No. F-A. S-F **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code



### 15. Regulatory information

**US federal regulations** 

All components are listed on or exempted from the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Listed.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Ammonium Hydroxide (CAS 1336-21-6) Listed. Ethylenediaminetetraacetate-zinc-ammonia complex (CAS 67859-51-2) Listed.

### SARA 304 Emergency release notification

Zinc Oxide (CAS 1314-13-2)

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

## SARA 313 (TRI reporting)

Che	mical name	CAS number	% by wt.
ZINO	C COMPOUNDS	67859-51-2	20 - < 30
AMN	MONIA (INCLUDES ANHYDROUS AMMONIA A	<b>∖NB</b> 36-21-6	3 - < 5
AQL	JEOUS AMMONIA FROM WATER DISSOCIAE	BLE	
AMN	MONIUM SALTS AND OTHER SOURCES; 10%	G OF	
TOT	AL AQUEOUS AMMONIA IS REPORTABLE		
UND	DER THIS LISTING)		
ZINO	C COMPOUNDS	1314-13-2	3 - < 5

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

## **US state regulations**

### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### 16. Other information, including date of preparation or last revision

**Issue date** 02-09-2017

Revision date 12-04-2017

Version # 02

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**NFPA** ratings



**Disclaimer** 

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