# SAFETY DATA SHEET



### 1. Identification

Product identifier PURIC ZINC PRIME

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 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes skin irritation. Causes serious eye irritation.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.

Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing and wash before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

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 | %         |
|---|--------------------------|------------|-----------|
| Sodium Glucoheptonate                             |                          | 31138-65-5 | 10 - < 20 |
| Ethylenediaminetetraacetate-zinc-a mmonia complex |                          | 67859-51-2 | 5 - < 10  |
| Aqua Ammonia                                      |                          | 1336-21-6  | 1 - < 3   |

Material name: PURIC ZINC PRIME

| Chemical name              | Common name and synonyms | CAS number | %         |
|----------------------------|--------------------------|------------|-----------|
| Potassium Hydroxide        |                          | 1310-58-3  | 1 - < 3   |
| Zinc Oxide                 |                          | 1314-13-2  | 1 - < 3   |
| Other components below rep | portable levels          |            | 70 - < 80 |

Percentage ranges of composition to protect confidentiality or due to batch variation.

### 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. 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 protect themselves.

# 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 General fire hazards

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

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. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with inert absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

7. Handling and storage Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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# 8. Exposure controls/personal protection

# Occupational exposure limits

| Components                              | Туре                                 | Value                | Form                 |
|---|--------------------------------------|----------------------|----------------------|
| Aqua Ammonia (CAS<br>1336-21-6)         | PEL                                  | 35 mg/m3             |                      |
| ,                                       |                                      | 50 ppm               |                      |
| Zinc Oxide (CAS<br>1314-13-2)           | PEL                                  | 5 mg/m3              | Respirable fraction  |
|   |                                      | 5 mg/m3              | Fume.                |
|   |                                      | 15 mg/m3             | Total dust.          |
| US. ACGIH Threshold Limit Value         | S                                    |                      |                      |
| Components                              | Туре                                 | Value                | Form                 |
| Aqua Ammonia (CAS<br>1336-21-6)         | STEL                                 | 35 ppm               |                      |
| ,                                       | TWA                                  | 25 ppm               |                      |
| Potassium Hydroxide (CAS<br>1310-58-3)  | Ceiling                              | 2 mg/m3              |                      |
| Zinc Oxide (CAS<br>1314-13-2)           | STEL                                 | 10 mg/m3             | Respirable fraction  |
| , | TWA                                  | 2 mg/m3              | Respirable fraction. |
| US. NIOSH: Pocket Guide to Cher         | nical Hazards                        |                      |                      |
| Components                              | Туре                                 | Value                | Form                 |
| Aqua Ammonia (CAS<br>1336-21-6)         | STEL                                 | 27 mg/m3             |                      |
|   |                                      | 35 ppm               |                      |
|   | TWA                                  | 18 mg/m3             |                      |
|   |                                      | 25 ppm               |                      |
| Potassium Hydroxide (CAS<br>1310-58-3)  | TWA                                  | 2 mg/m3              |                      |
| Zinc Oxide (CAS<br>1314-13-2)           | Ceiling                              | 15 mg/m3             | Dust.                |
|   | STEL                                 | 10 mg/m3             | Fume.                |
|   | TWA                                  | 5 mg/m3              | Dust.                |
|   |                                      | 5 mg/m3              | Fume.                |
| ogical limit values No h                | piological exposure limits noted for | or the ingredient(s) |                      |

Biological limit values

Appropriate engineering

controls

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

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. Eye wash facilities and emergency shower must be available when handling this product.

# Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

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

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

General hygiene considerations

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** 

Physical stateLiquid.FormLiquid.ColorNot available.

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Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 9.27 lb/gal Specific gravity 1.11

# 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.

**Incompatible materials** Strong oxidizing agents.

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** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

# Information on toxicological effects

**Acute toxicity** 

characteristics

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Components **Species Test Results** 

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

Acute

**Dermal** 

LD50 Rat > 2000 mg/kg, 24 Hours

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

Potassium Hydroxide (CAS 1310-58-3)

**Acute** Oral

LD50 Rat 388 mg/kg

Sodium Glucoheptonate (CAS 31138-65-5)

Acute

**Dermal** 

LD50 Rat 4040 mg/kg, 24 Hours

Oral

LD50 Rat > 4040 mg/kg

Zinc Oxide (CAS 1314-13-2)

**Acute** 

**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

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

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

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

mutagenic or genotoxic.

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

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.

Material name: PURIC ZINC PRIME SDS US 5/7 Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated

exposure

Not classified.

**Aspiration hazard** Not available.

**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. No data available.

Mobility in soil
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

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents and container in accordance with government 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).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings, if applicable, even

after container is emptied.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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

Sodium Glucoheptonate (CAS 31138-65-5) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Aqua Ammonia (CAS 1336-21-6) Listed. Ethylenediaminetetraacetate-zinc-ammonia complex Listed.

(CAS 67859-51-2)

Potassium Hydroxide (CAS 1310-58-3)

Zinc Oxide (CAS 1314-13-2)

Listed.

Listed.

# SARA 304 Emergency release notification

Not regulated.

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

Not regulated.

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# 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)

| Chemical name                    | CAS number                 | % by wt. |   |
|----------------------------------|----------------------------|----------|---|
| ZINC COMPOUNDS                   | 67859-51-2                 | 5 - < 10 | _ |
| AMMONIA (INCLUDES ANHYDROUS AMN  | 10nia a <b>nib</b> 36-21-6 | 1 - < 3  |   |
| AQUEOUS AMMONIA FROM WATER DIS   | SOCIABLE                   |          |   |
| AMMONIUM SALTS AND OTHER SOURCE  | ES; 10% OF                 |          |   |
| TOTAL AQUEOUS AMMONIA IS REPORT. | ABLE                       |          |   |
| UNDER THIS LISTING)              |                            |          |   |
| ZINC COMPOUNDS                   | 1314-13-2                  | 1 - < 3  |   |

### 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

(SDWA)

Not regulated.

Inventory name

#### 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.

### **International Inventories**

Country(s) or region

| Canada                      | Non-Domestic Substances List (NDSL)                                       | Yes |
|-----------------------------|---|-----|
| China                       | Inventory of Existing Chemical Substances in China (IECSC)                | Yes |
| Europe                      | European Inventory of Existing Commercial Chemical<br>Substances (EINECS) | Yes |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)         | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                             | Yes |

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

02-23-2016 Issue date **Revision date** 12-04-2017

Version # 02

**NFPA** ratings Health: 2

Flammability: 0 Instability: 0

**NFPA** ratings



Disclaimer This information was developed from information on the constituent materials. No warranty is

> expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Wilbur-Ellis disclaims all liability for reliance thereon. The user should satisfy

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himself that he has all current data relevant to his particular use.

On inventory (yes/no)\*