

# SAFETY DATA SHEET

## 1. Identification

**Product identifier Urea Stabilized Nitrogen Fertilizer** 

Other means of identification

**SDS Number** OptiFeed Platinum 46-0-0 Urea Stabilized Nitrogen

OptiFeed™ Synonyms Recommended use Fertilizer. **Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Fertizona Casa Grande LLC Manufacturer/Supplier

2850 South Peart Road

Casa Grande, AZ 85193-9024 US

info@fertizona.com 520-836-7477

24 Hour Emergency Number Infotrac- 800-535-5053

## 2. Hazard(s) identification

**Physical hazards** Not classified. **Health hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

**Hazard symbol** None. Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

Not classified.

## Supplemental information

Not applicable.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Urea	57-13-6	60 - 100
Dicyandiamide	461-58-5	1 - 5
Non hazardous dye	Proprietary	< 3
N-(n-butyl)-thiophosphoric triamide	94317-64-3	< 0.1

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are

in percent by volume.

This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

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#### 4. First-aid measures

**Inhalation** Move person to fresh air. Get medical attention if any discomfort continues.

**Skin contact** Wash off with plenty of water. Get medical attention if irritation develops or persists.

**Eye contact** Do not rub eye. Remove contact lenses, if present and easy to do. Flush thoroughly with water. If

Symptoms can include irritation, redness, scratching of the cornea, and tearing.

irritation occurs, get medical assistance.

**Ingestion** Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort occurs.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

**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

Use fire-extinguishing media appropriate for surrounding materials.

None known.

Specific hazards arising from

the chemical

The product is non-combustible. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.

Fire-fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid inhalation of dust and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. After removal flush contaminated area thoroughly with water

Never return spills to original containers for re-use.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers or watercourses.

## 7. Handling and storage

Precautions for safe handling

Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry, well-ventilated place. Long term storage at temperatures above 100°F (36°C) can adversely affect the efficacy of products containing N-(n-butyl)-thiophosphoric triamide. Store away from incompatible materials.

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## 8. Exposure controls/personal protection

## **Occupational exposure limits**

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

Components	Туре	Value	Form
Dust (CAS -)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 19	910.1000)		
Components	Туре	Value	Form
Dust (CAS -)	TWA	5 mg/m3	Respirable fraction.
US. OSHA Table Z-3 (29 CFR 19	910.1000)		
Components	Туре	Value	Form
		15 mg/m3	Total dust.
		50 millions of	Total dust.
		particle	
		15 millions of	Respirable fraction.
		particle	
US. ACGIH Threshold Limit Val	ues		
Components	Туре	Value	Form
Dust (CAS -)	TWA	3 mg/m3	Respirable particles.
,		10 mg/m3	Inhalable particles.
US. Workplace Environmental I	Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
		10 ppm	

## **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time	
None					

# 9. Physical and chemical properties

Appearance Blue-green granules

Physical state Solid.
Form Granules.
Color Blue-green.
Odor Slight sulfurous
Odor threshold Not available.

**pH** 7.2 (10% in water)

Melting point/freezing point 275 °F (135 °C) Decomposes.

Initial boiling point and boiling

range

Not Applicable.

Flash point Not Applicable

Evaporation rate No Applicable.

Flammability (solid, gas) Not applicable.

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Upper/lower flammability or explosive limits

Flammability limit - lower Not Applicable.

(%)

Flammability limit - upper

(%)

Not Applicable.

Vapor pressure Not Applicable. Vapor density Not Applicable. Relative density Not available. Soluble. Solubility(ies)

Partition coefficient

Not available.

(n-octanol/water)

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

Other information

47.00 lb/ft3 **Density** 

# 10. Stability and reactivity

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

**Chemical stability** Stable under normal temperature conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Extreme temperatures.

Incompatible materials Acids. Strong reducing agents. Strong oxidizing agents.

Hazardous decomposition

products

Ammonia. Hydrogen sulfide. During combustion: Carbon oxides. Nitrogen oxides. Sulfur oxides.

## 11. Toxicological information

Information on likely routes of exposure

May irritate and cause stomach pain, vomiting and diarrhea. Ingestion

Inhalation Dust may irritate respiratory system.

Skin contact Dust may irritate skin. Dust may irritate the eyes. Eye contact

Symptoms related to the physical, chemical and

toxicological characteristics

Symptoms can include irritation, redness, scratching of the cornea, and tearing.

Information on toxicological effects

May irritate and cause stomach pain, vomiting, diarrhea and nausea. **Acute toxicity** 

Components **Species Test Results** 

N-(n-butyl)-thiophosphoric triamide (CAS 94317-64-3)

**Acute** Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat > 2823 mg/kg

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Components Species Test Results

Urea (CAS 57-13-6)

Acute Oral

LD50 Rat 14300 mg/kg

Skin corrosion/irritation

May cause irritation through mechanical abrasion.

Serious eye damage/eye

irritation

May cause eye irritation.

milation

Respiratory sensitization No data available.

Skin sensitization Not a skin sensitizer.

Germ cell mutagenicity No data available.

Germ cen mutagementy No data av

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

**Reproductive toxicity**The product contains a small amount of substance that is suspected of damaging fertility or the

unborn child.

Specific target organ toxicity -

single exposure

No data available.

Specific target organ toxicity -

repeated exposure

No data available.

Aspiration hazard Not classified.

**Chronic effects** Prolonged exposure may cause chronic effects.

Further information No other specific acute or chronic health impact noted.

## 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.

Components Species Test Results

N-(n-butyl)-thiophosphoric triamide (CAS 94317-64-3)

Aquatic

 Crustacea
 EC50
 Daphnia
 290 mg/l, 48 hours

 Fish
 LC50
 Fish
 1140 mg/l, 96 hours

Urea (CAS 57-13-6)

Aquatic

Fish LC50 Leuciscus idus > 6810 mg/l, 96 hours

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Urea (CAS 57-13-6) -2.11

**Mobility in soil** This product is water soluble and may disperse in soil.

Other adverse effects No data available.

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## 13. Disposal considerations

**Disposal instructions**Do not allow this material to drain into sewers/water supplies. 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

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

**IMDG** 

Not regulated as a dangerous good.

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

Not applicable.

the IBC Code

## 15. Regulatory information

US federal regulations

This product is not hazardous according to OSHA 29CFR 1910.1200.

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

N-(n-butyl)-thiophosphoric triamide (CAS 94317-64-3) 1.0 % One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

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

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

No

No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### 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)

Food and Drug Not regulated

Administration (FDA)

US state regulations None

**International Inventories** 

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies 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).

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

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**Revision date** Version # 01

**NFPA Ratings** 



List of abbreviations EC50: Effective concentration, 50%.

LC50: Lethal Concentration, 50%.

References EPA: Acquire database

HSDB® - Hazardous Substances Data Bank

Disclaimer

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this (M)SDS.

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