

# SAFETY DATA SHEET

#### **SECTION 1: Identification**

#### Product identifier: NEON SOIL Other means of identification: SDS number – EA0085 **Recommended use:** Fertilizer Coating **Recommended restrictions:** Use in accordance with supplier's recommendations. Manufacturer/Importer/Supplier/Distributor information Company name: PRESIDION AG 2850 34th Street North, #374 Address: St. Petersburg, Florida 33702 321-947-4625 (8:00AM-5:00PM EST) **Telephone: Emergency:** Call CHEMTREC day or night Within USA/Canada 1-800-424-9300 Outside USA/Canada +1 703-427-3887 (collect calls accepted)

#### SECTION 2: Hazard(s) identification

# Classification of the substance or mixture GHS-US Classification

Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Skin corrosion/irritation	Category 2

Label elements Hazard symbol(s)



Signal word: Hazard statement(s):

Danger

Causes serious eye damage. Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause respiratory irritation.

Precautionary statement(s) Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear eye and face protection, protective gloves, protective clothing.

	<ul> <li>P210-Keep away from heat/sparks/open flames/hot surfaces. No smoking.</li> <li>P264-Wash hands, forearms and face thoroughly after handling P280-Wear eye protection, face protection, skin protection, clothing protection</li> <li>P302-If on skin: wash with plenty of water</li> </ul>
Response:	If in eyes: Rinse with water for several minutes. Remove contact lenses, if present and continue rinsing. Immediately seek medical attention or advice.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with all applicable local, state, national, provincial and international laws and regulations.
Hazard(s) not otherwise Classified (HNOC)	None Known

#### **SECTION 3:** Composition/information on ingredients

#### This product is a mixture: Composition---Information On Ingredients

Chemical name	<b>Common Name</b>	CAS number	%
N-(n-butyl)-thiophosphoric triamide	NBPT	94317-64-3	1-10
Dimethyl sulfoxide	DMSO	67-68-5	40-70
N-Cyanoguanidine	Dicyandiamide	461-58-5	20-40

**Composition comments** All concentrations are in percent by weight. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i). Remaining components are proprietary, non-hazardous, and /or present at amounts below reportable limits.

- **Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.
- **Skin contact:** Remove all contaminated clothing immediately. Wash immediately with soap and plenty of water. If irritation develops and persists, get medical attention. Launder contaminated clothing before reuse.
- **Eye contact:** Wash immediately with large amounts of water for 15 minutes, lifting the upper and lower lids until no evidence of product remain. Get immediate medical attention.

**Ingestion:** Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention.

Most important symptoms/effects, acute and delayed: Risk of serious damage to eyes.

#### Indication of immediate medical attention

and special treatment needed: Treat symptomatically.

#### **SECTION 5:** Fire-fighting measures

Suitable extinguishing media: Carbon Dioxide  $(CO_2)$ , Dry chemical, Foam, Water Fog Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread fire. Specific hazards arising from the chemical: Vapors released in fire conditions may be toxic, irritating and corrosive.

Hazardous combustion products may include: Carbon oxides, nitrogen oxides, sulfur oxides and irritating vapors.

**Special protective equipment and precautions for fire-fighters:** Firefighters should be equipped with protective clothing and self-contained breathing apparatus to protect against potentially toxic and irritating vapors. In case of fire or explosion, keep unnecessary people away. Isolate hazard area and prevent any entry by non-emergency personnel. Stay upwind, out of low areas and ventilate closed spaces before entering.

#### **SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**: Wear appropriate personal protective equipment. (See Section 8)

**Methods and materials for containment and cleaning up:** Do not empty into drains or waters. Do not touch or walk through the spilled material; stop leak if you can do it without risk. Take up with sand or other non-combustible absorbent material or suitable vacuum and place in labeled sealable containers. Immediately consult your environmental supervisor.

Recommended Decontamination Facilities: Eye bath and water washing facilities.

### **SECTION 7: Handling and Storage**

**Precautions for safe handling:** Keep away from sources of ignition. No smoking. Observe good industrial hygiene practices. Immediately remove all contaminated clothing. Avoid contact with eyes and skin. Inhalation of vapors and aerosols must be absolutely prevented. Employees should wash their hands and face before eating and drinking and shower thoroughly before leaving work. Keep away from food and drink stuffs.

**Conditions for safe storage, including any incompatibles:** Keep container tightly closed and in a well-ventilated place. Long term storage at temperatures above 100°F (36°C) and long term storage of opened containers, can adversely impact the efficacy of products containing N-(n-butyl)-thiophosphoric triamide. Store in accordance with all applicable local, state, national provincial and international regulations.

# **SECTION 8: Exposure controls/personal protection**

## Control Parameters Occupational exposure limits

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

Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)
N-(n-butyl)-thiophosphoric triamide (94317-64-3)	Not Established	Not Established
Dimethyl sulfoxide (67-68-5)	Not Established	Not Established
Dicyandiamide (461-58-5)	Not Established	Not Established

## **ACGHI Threshold Limit Values**

Substance	TLV-TWA (8 hour)	TLV-STEL (15 min)
N-(n-butyl)-thiophosphoric triamide (94317-64-	Not Established	Not Established
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Dimethyl sulfoxide (67-68-5)	Not Established	Not Established
Dicyandiamide (461-58-5)	Not Established	Not Established
Other Exposure Limits:	Dimethyl sulfoxide:	
-	3-Hr (AIHA WEEL-TWA): 2	50
		11
(1	AIHA: American Industrial H	vgiene Association,
	WEEL: Workplace Environm	
-	ΓWA: Time-Weighted Averag	ge)
<b>Appropriate engineering controls:</b> U and safety personnel to meet local needs.	se local ventilation as recom	nended by onsite health
Individual protection measures, such as	personal protective equipm	ent:
-	rotective eye-goggles with sid	
Skin and Hand protection: L	ong-sleeve shirts, pants, glov	es (e.g.
p	olyethylene/ethylene vinyl alo	cohol) and boots are

	recommended. Impervious suits are recommended when
	the potential for dermal contact is significant.
<b>Respiratory protection:</b>	NIOSH-approved organic-vapor respirator, SCBA or
	SAR.
Other:	Overalls, apron or other protective clothing.
Thermal hazards:	Not available-

# **SECTION 9: Physical and chemical properties**

Physical state:LiquidColor:Dark blueOdor:Ammonia-like odorOdor threshold:Not AvailablepH (5% in DI water):7.5-10.4Melting point/freezing point:Not AvailableInitial Boiling point/Boiling Range:Not Available
Odor:Ammonia-like odorOdor threshold:Not AvailablepH (5% in DI water):7.5-10.4Melting point/freezing point:Not Available
Odor threshold:Not AvailablepH (5% in DI water):7.5-10.4Melting point/freezing point:Not Available
pH (5% in DI water):7.5-10.4Melting point/freezing point:Not Available
Melting point/freezing point: Not Available
Initial Railing point/Railing Range: Nat Available
Initial Doning Point/Doning Kange. Not Available
Flash point:         98 deg C (208.4 deg F)
<b>Other information -</b> Flammability Does not support combustion at 103 deg C.
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
Explosive limit – lower: Not available
Explosive limit – upper: Not available
Vapor pressure: Not available
Vapor density: Not available
<b>Relative density (Specific gravity):</b> 1.16 @ 20 deg C (68 deg F)
Solubility (water, other): Partially soluble in water
Partition coefficient (n-octanol/water): Not Available
Auto-ignition temperature: Not Available
<b>Decomposition temperature:</b> No thermal decomposition is anticipated when stored and
handled correctly
Viscosity: Not Available
Other information
Bulk density: Not Available
VOC (Weight %):Not Available

# **SECTION 10: Stability and Reactivity**

Reactivity: Chemical stability:	This product is stable and non-reactive under normal conditions of use, storage and transport. This product is anticipated to be stable under normal use and storage conditions.
Possibility of hazardous reactions: Conditions to avoid:	Not known to cause any hazardous reactions. Heat, sparks, other sources of ignition and temperature extremes.
Incompatible materials:	Strong oxidizing and reducing agents. Acids.
Hazardous decomposition Products:	This product contains components which may decompose to release: methanethiol, formaldehyde, water, bis (methylthio) methane, dimethyl disulfide, dimethyl

sulfone, dimethyl sulfide, sulfur dioxide, oxides of carbon, nitrogen, sulfur and other compounds.

#### **SECTION 11: Toxicological information**

#### Information on likely routes of exposure

Inhalation:	Yes. May cause irritation of the nose throat and
	respiratory tract.
Ingestion:	Yes. May cause irritation of the gastrointestinal tract.
Skin:	Yes, skin contact and absorption are possible.
Eye:	Yes. Risk of serious damage to eyes.

**Symptoms related to the physical, chemical, and toxicological characteristics:** May cause serious eye damage. May cause irritation to nose and throat if inhaled. Skin sensitization (an allergic reaction) may develop. Inhalation may lead to dizziness, nausea, unconsciousness and other narcotic effects.

## Acute toxicity:

#### Components

N-(n-butyl)-thiophosphoric triamide (CAS 94317-64-3) Oral LD50 (rat) Dermal LD50 (rat)

- NOAEL (rat)
- Skin corrosion/irritation Serious eye damage Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity, single exposure Specific target organ toxicity, repeated exposure Aspiration hazard Chronic effects Further information

#### Dimethyl sulfoxide (CAS 67-68-5) Oral LD50 (male rat) Skin LD50 (rabbit) Inhalation Gas LD50 (rat)

Skin corrosion/irritation Serious eye damage Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity, single exposure

- >2823 mg/kg >2000 mg/kg 445 mg/kg, 1 day
- May cause irritation. Category 1 Not classified Not classified Not classified Category 2 Not classified Not classified Not classified Prolonged exposure may cause chronic effects Symptoms may be delayed
- 14500 mg/kg 5000 mg/kg 40250 ppm

Not classified Not classified

Specific target organ toxicity, repeated exposure Aspiration hazard Chronic effects Further information	Not classified Not classified Not classified Not applicable
Dicyandiamide (CAS 461-58-5)	
Oral LD50 (rat/adult)	>10000 mg/kg
Dermal LD50 (rabbit/adult)	>2000 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity, single exposure	Not classified
Specific target organ toxicity, repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic effects	Not classified
Further information	Not applicable
Specific target organ toxicity, single exposure	Not classified
Specific target organ toxicity, repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic effects	Not classified
Further information	Not applicable

# SECTION 12: Ecological information

# Ecotoxicity

Product data on mixture:	Not available
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# **Ingredient Information:**

N-(n-butyl)-thiophosphoric triamide	
LC50, Bluegill (Lepomis macrochirus)	1140 mg/l
EC50, 48h, water flea (Daphnia magna)	290 mg/l
Algae (Selenastrum capricomutum) EC50	280 mg/l

Dimethyl sulfoxide	
LC50, rainbow trout, 96-hour	35000 mg/l
EC50, water flea (Daphnia pulex)	27500 mg/l
EC50, algae (Lepomis macrochirus) 96-hour	>400000 mg/l

Dicyandiamide LC50, rainbow trout (Oncorhy EC50, 48-hour, Daphnia magna	
Persistence and degradability	Product Data Not Available
<b>Bioaccumulative potential</b>	Product Data Not Available
Mobility in soil	Product Data Not Available
Mobility in general	Product Data Not Available
Other adverse effects	Product Data Not Available

#### **SECTION 13: Disposal considerations**

#### **Disposal instructions:**

Do not allow this material to drain into sewers or water supplies. Dispose of in accordance with all applicable regulations. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Since emptied containers may retain product residue, follow label warnings even after container is empties.

#### **SECTION 14: Transport Information**

US-DOT:	Not regulated as dangerous goods.	
TDG:	Not regulated as dangerous goods.	
IMO/IMDG:	Not regulated as dangerous goods.	
IMDG :	Not regulated as dangerous goods.	
Transport in bulk according to Annex II of MARPOL 73/78 And IBC Code:	Not established.	

#### **SECTION 15: Regulatory Information**

#### **US Regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

N-(n-butyl)-thiophosphoric triamide (NBPT) is subject to a Significant New Use Rule (SNUR) as specified in 40 CFR 721.6090.

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

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

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

Not listed.

<b>OSHA Specifically Regulated Substances (29</b>	CFR 1910.1050)	Not listed.
SARA 302 Extremely Hazardous Substance:	-No	
SARA 311/312 Hazardous Chemical:	-Yes	
SARA 313 (TRI reporting):	-No	

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

#### **US State Regulations.**

**California Proposition 65**-This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Ri	ght To Know Components:	Dimethyl sulfoxide Cyanoguanidine	CAS 67-68-5 CAS 461-58-5
Pennsylvania ]	Right to Know Components:	Cyanoguanidine	CAS 461-58-5
<b>Regulations/Can</b>	ada		
Export Control	gs and Substances Act List (CEPA 1999, Schedule 3 rol Regulations	Not Regulated Not Listed Not Regulated	
<u>INVENTORIES</u> Canada	Domestic Substances List (D	SL)	All components on inventory.
US	Toxic Substances Control Ac	et (TSCA) Inventory	All components on inventory.

#### **SECTION 16: Other Information**

Revision Date: 7-19-2018

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