Safety Data Sheet
Pincer Plus

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Pincer Plus

1.2 Recommended use of the chemical and restrictions on use

Nitrogen Stabilizer

1.3 Supplier's details

Name	CAROLINA EASTERN, INC.
Address	347 McAllister Mill Road Scranton SC 29591 USA
Telephone	843-389-2761

1.4 Emergency phone number

CHEMTREC Administrative Office Telephone number: 1-800-262-8200

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Eye damage/irritation (C.4.5), Cat. 1
- Toxic to reproduction (C.4.10), Cat. 2
- Skin corrosion/irritation (C.4.4), Cat. 2

2.2 GHS label elements, including precautionary statements.

Pictograms

1. Corrosion; 2. Health hazard; 3. Exclamation mark

Signal word **Danger**

Hazard statement(s)
Causes serious eye damage.
Suspected of damaging fertility or the unborn child [effect, route]
Causes skin irritation.

Precautionary statement(s)

P280	Wear eye protection/face protection/protective gloves/protective clothing.
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 CENTER/doctor.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container.
P264	Wash thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of water.
P321	Specific treatment (see on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. N-(n-Butyl)thiophosphoric triamide

Concentration	20 % (weight)
CAS no.	94317-64-3

2. Guanidine, N-cyano-

Concentration	20 % (weight)
CAS no.	461-58-5

3. Dimethyl sulfoxide

Concentration	60 % (weight)
CAS no.	67-68-5

- Flammable liquids (C.4.19), Cat. 4

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
If swallowed	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed.
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific hazards arising from the chemical.
Dimethyl sulfoxide: Carbon oxides, Sulphur oxides

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary. Heating to dryness may cause the release of carbon dioxide gas. Cool containers with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up.
Soak up with inert absorbent material (e.g., sand, silica gel). Keep in suitable, closed containers for disposal. Liquid is corrosive. Ensure pumping equipment is 316 stainless steel.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities.
Keep container tightly closed in a dry and well-ventilated place, away from direct sunlight. Avoid storage at temperatures of 100F or higher. Corrosive to steel, aluminum, brass. Use with stainless steel or PVC fittings. Never allow product to get in contact with water during storage.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Dimethyl sulfoxide (CAS: 67-68-5 EC: 200-664-3)
WEEL (Inhalation): 250 ppm (ACGIH)

8.2 Appropriate engineering controls

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Dark purple
Color	Dark purple
Odor	Garlic like
Odor threshold	Not Established
Melting point/freezing point	Not Established
Boiling point or initial boiling point and boiling range	Not Established
Flammability	Not Established
Lower and upper explosion limit/flammability limit	Not Established
Flash point	372˚F
Auto-ignition temperature	Not Established
Decomposition temperature	Not Established
pH	9.0-10.0
Kinematic viscosity	Not Established
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	Not Established
Vapor pressure	Not Established
Evaporation rate	Not Established
Density and/or relative density	9.53 lbs./gal, 1.142 (SG)

Relative vapor density	Not Established

SECTION 10: Stability and reactivity

10.1 Reactivity
None under normal use conditions.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
None that are known.

10.4 Conditions to avoid.
None that are known.

10.5 Incompatible materials
Dimethyl sulfoxide: Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents
Metal nitrates (potentially explosive reaction), acids. Will corrode copper, zinc, aluminum, and their alloys.

10.6 Hazardous decomposition products
Heating to dryness may cause the release of methanethiol, formaldehyde, dimethyl disulfide, sulfur dioxide, oxides of carbon, nitrogen, sulfur, and other compounds.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
May cause skin irritation.

Serious eye damage/irritation
Causes eye irritation.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity
No data available

Specific target organ toxicity (STOT) - single exposure
No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard
No data available

SECTION 12: Ecological information

Toxicity
No data available on product

Persistence and degradability
No data available on product

Bioaccumulative potential
No data available on product

Mobility in soil
No data available

Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Packaging disposal
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)
Chemical name: Phosphorothioic triamide, butyl-
CAS: 94317-64-3

Canadian Domestic Substances List (DSL)
Chemical name: Guanidine, cyano-
CAS: 461-58-5

New Jersey Right To Know Components
Common name: Dimethyl sulfoxide
CAS number: 67-68-5

California Prop. 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Pennsylvania Right To Know Components
Common name: Dimethyl sulfoxide
CAS number: 67-68-5

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

SARA 311/312 Hazards
Fire Hazard, Chronic Health Hazard

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Canadian Domestic Substances List (DSL)
Chemical name: Methane, sulfinylbis-
CAS: 67-68-5

HMIS Rating

Health	2
Flammability	0
Physical hazard	0
Personal protection	H

NFPA Rating

Health hazard	2
Fire hazard	0
Reactivity hazard	0
Special hazard	

SECTION 16: Other information

Certification Date: November 26, 2023

16.1 Further information/disclaimer
DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or

quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

16.2 Preparation information

Prepared by IMS Labs, - Crop Excellence Regulatory Consultant