



# N-STABLE 25

Date: January 3rd, 2017

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name N-STABLE 25

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use(s): Agriculture

### 1.3 Details of the supplier of the safety data sheet

Company Ametech LLC  
120 Stryker Lane Unit 202A/B  
Hillsborough, NJ 08844  
Telephone number: (908) 829-3813

### 1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC (800-424-9300 within the United States or 703-527-3887 for international collect calls).

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 1
Reproductive toxicity	Category 1B
Irritation (Respiratory tract)	Category 3
Skin sensitizer	Category 1
Flammable liquid (combustible)	Category 4

### 2.2 Label Elements

HCS 2012 (29 CFR 1910.1200)

Pictogram



Signal Word

Danger

Hazard Statements:

H227	Combustible liquid
H315	Causes skin irritation
H317	May cause allergic skin reaction
H318	Causes serious eye damage
H360	May damage fertility or the unborn child
H335	May cause respiratory irritation

*Precautionary Statements*

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Wear personal protective equipment as required.
P361	Avoid breathing mist/vapors/spray.

Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs, get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call poison control center/doctor.
P308+P313	If exposed or concerned: Get medical advice/attention.
P304+P340+P312	If inhaled, remove person to fresh air and keep comfortable for breathing. Call a poison control center/doctor if you feel unwell.

Storage

P233	Keep container tightly closed.
P403	Store in well-ventilated place.
P405	Store locked up.

Disposal

P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.
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**3. COMPOSITION/INFORMATION ON INGREDIENTS**



**3.1 Substance**

Not applicable, this product is a mixture.

**3.2 Mixture**

Synonyms Proprietary NBPT Blend

*Hazardous Ingredients and Impurities*

Component	CAS Reg. Number	% Wt/Wt
Phosphorothioic, N-butyl-	94317-64-3	10 - 30

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**4.1 Description of first-aid measures**

General advice	Show this safety data sheet to the doctor in attendance. First responder needs to protect himself. Place affected apparel in a sealed bag for subsequent decontamination.
In case of inhalation	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist. If affected person is not breathing, apply artificial respiration.
In case of skin contact	Immediate flush skin with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.
In case of ingestion	Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Do not induce vomiting without advice from poison control center. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

Risk	Risk of: Serious damage to the eyes, skin irritation, and respiratory irritation.
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**4.3 Indication of any immediate medical attention and special treatment needed**

Notes to physician	All treatments should be based on observed signs of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. There is no specific antidote available.
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**5. FIREFIGHTING MEASURES**

Flash Point: 158 F (73 C).  
Method Used: TAG Closed Cup


 AMETECH LLC
**5.1 Extinguishing Media**

Suitable extinguishing media

Water spray or fog. Carbon dioxide. Foam.

Unsuitable extinguishing media

Water jet.

**5.2 Special hazards arising from the substance of mixture**

Specific hazards during fire fighting

Fire conditions may produce oxides of nitrogen, carbon, phosphorus.

**5.3 Advice for firefighters**

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid inhalation of vapors and spray mist.

For further information refer to section 8 "Exposure controls/personal protection."

**6.2 Environmental precautions**

Environmental precautions

Avoid release to the environment.

**6.3 Methods and materials for containment and cleaning up**

Prohibition

Use only non-sparking tools.

Methods for containment

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal. In the event of a spill or accidental release notify relevant authorities in accordance with all applicable regulations.

**6.4 Reference to other sections**

Reference to other sections

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

13. DISPOSAL CONSIDERATIONS

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Do not taste or swallow. Avoid inhalation of vapors/water spray. Wash thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Store in a cool environment.

**7.3 Specific end use(s)**

No data available.



**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

*Introductory Remarks:*

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**8.1 Control parameters**

d-limonene: TWA 30 ppm

**8.2 Exposure controls**

*Control measures*

Engineering measures

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. Provide eyewash station and safety shower.

*Personal protective equipment*

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the US, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Hand protection

It is good industrial hygiene practice to minimize skin contact. Chemical resistant gloves are recommended.

Eye protection

Wear safety glasses with side shields (or goggles)

Skin and body protection

Recommended preventive skin protection

Footwear protection against chemicals

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substances at the work place.

Remove and wash contaminated apparel.

Hygiene measures

Observe good industrial hygiene practices.

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is

stored.

- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures

Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

### 9.1 Information on basic physical and chemical properties

Appearance	Physical state: Liquid Color: Green
Odor	Mild, citrus.
Odor Threshold	No data available
pH	No data available
Freezing point	No data available
Boiling point/boiling range	No data available
Flash point	158 F (73 C) TAG closed cup
Evaporation rate (butylacetate = 1)	No data available
Flammability	This product does not sustain combustion at 60 and 75 deg C (140 and 167 deg F).
Flammability/Explosive limit	No data available
Autoignition temperature	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	8.8 lb/gallon
Solubility	Water solubility: 77 F (25 C) Soluble
Partition coefficient: n-octanol/water	Not applicable, preparation.
Thermal decomposition	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

### 9.2 Other Information

No data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Chemical stability

Stable under recommended storage conditions.



**10.3 Possibility of hazardous reactions**

Polymerization Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

Conditions to avoid Keep away from heat and sources of ignition.

**10.5 Incompatible materials**

Reacts with: Oxidizing materials, Acids, Strong reducing agents, Strong bases

**10.6 Hazardous decomposition products**

On combustion or on thermal decomposition (pyrolysis), releases: Oxides of phosphorus, carbon oxides (CO + CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), sulfur oxides, ammonia, acetic acid, ethanol, phosphine

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

*Acute toxicity*

Acute oral toxicity Not classified as hazardous for acute oral toxicity according to GHS  
According to the data on the components  
According to the classification criteria for mixtures.

Acute inhalation toxicity Not classified as hazardous for acute inhalation toxicity according to GHS  
According to the data on the components  
According to the classification criteria for mixtures.

Acute dermal toxicity Not classified as hazardous for acute dermal toxicity according to GHS  
According to the data on the components  
According to the classification criteria for mixtures.

Acute toxicity (other routes of administration) No data available.

*Skin corrosion/irritation*

Skin irritation Not classified as irritating to skin.  
According to the data on the components  
According to the classification criteria for mixtures

*Serious eye damage/eye irritation*

Eye irritation Risk of serious damage to eyes.  
According to the data on the components.  
According to the classification criteria for mixtures.

*Respiratory or skin sensitization*

Sensitization Does not cause skin sensitization.  
According to the data on the components  
According to the classification criteria for mixtures.

*Mutagenicity*

Genotoxicity in vitro Product is not considered to be genotoxic  
According to the data on the components



Genotoxicity in vivo	According to the classification criteria for mixtures. Product is not considered to be genotoxic According to the data on the components According to the classification criteria for mixtures.
<i>Carcinogenicity</i> Carcinogenicity	No data available
This product does not contain any ingredient designated as probable or suspected human carcinogens by: NTP IARC OSHA ACGIH	
<i>Toxicity for reproduction and development</i> Phosphorothioic triamide, N-butyl	Fertility study 2 generations - rat, male: Oral NOAEL F1: 21 mg/kg Method: OECD Test Guideline 416 Possible risk of impaired fertility. Published data  Fertility study 2 generations - Rat, female: Oral NOAEL F1: 84 mg/kg Method: OECD Test Guideline 416 Possible risk of impaired fertility. Published data
Developmental Toxicity/Teratogenicity	According to the data on the components. The product is not considered to be toxic for development. The product is not considered to be teratogenic. According to the classification criteria for mixtures.
<b>STOT</b> STOT-single exposure	The substance or mixture is not classified as specific target organ toxicant, single exposure. According to the classification criteria for mixtures.
STOT-repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure. According to the classification criteria for mixtures.
<i>Experience with human exposure</i> Experience with human exposure: Inhalation	Symptoms: Nose bleeding Vomiting Published data
<i>CMR effects</i> <i>Teratogenicity</i> Phosphorothioic triamide, N-butyl-	Animal testing did not show any effects on fetal development





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*Reproductive toxicity*

Phosphorothioic triamide, N-butyl-

*Aspiration toxicity*

Suspected of damaged fertility

No data available

<b>12. ECOLOGICAL INFORMATION</b>
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**12.1 Toxicity**

No data available.

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

No data available

**12.7 Ecotoxicity assessment**

No data available.

<b>13. DISPOSAL CONSIDERATIONS</b>
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**13.1 Waste treatment methods***Product Disposal*

Advice on Disposal

Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

<b>14. TRANSPORT INFORMATION</b>
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DOT:

Not regulated.

TDG:

Not regulated.

IMDG

Not regulated.

NOM



No data available.

IATA

Not regulated.

This product does not sustain combustion at 60 and 75 deg C (140 and 167 deg F).

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

## 15. REGULATORY INFORMATION

### 15.1 Notification status

United States TSCA Inventory

YES (positive listing)

On TSCA inventory.

Canadian Domestic Substances List (DSL)

YES (positive listing)

All components of this product are on the Canadian DSL.

### 15.2 Federal Regulations

#### US EPA EPCRA SARA Title III

SARA Hazard Designation Sections 311/312 (40 CFR 370)

Fire hazard	No
Reactivity Hazard	No
Sudden Release of Pressure Hazard	No
Acute Health Hazard	Yes
Chronic Health Hazard	Yes

#### SARA 313

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

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

#### SARA 304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Reportable Quantity

This material does not contain any components with SARA 302 RQ.

### 15.3 State Regulations

#### California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer or reproductive harm.  
N-methyl-2-pyrrolidone CAS No. 872-50-4

**16. OTHER INFORMATION****NFPA Classification**

Health	2 moderate
Flammability	1 slight
Instability or Reactivity	0 minimal

**HMIS Classification**

Health	2 serious
Flammability	1 slight
Reactivity	0 minimal

**Further information**

Date updated	01/03/17
Further information	New product SDS.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System (Paint & Coating)

**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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.