



## MATERIAL SAFETY DATA SHEETS

36

Anabasine

### 1. CHEMICAL IDENTITY

**Chemical Name :** Anabasine

**Chemical Classification:** Toxic

**Trade Name :**

**Synonyms:** 3-(2-Piperidinyl) pyridine, 2-(3-pyridyl) piperdine, Neonicotine, Anabasin, S-(-)-Anabasine, Anabazin

**Formula :** C<sub>10</sub>H<sub>14</sub>N<sub>2</sub>

**CAS No:** 494-52-0

**UN No:** 2902

#### Regulated Identification

**Shipping Name :** Pesticide, Liquid

**Hazchem Code :** 2X

**Codes / Label :** Class 6.1, Toxic

**Hazardous Waste ID No :** 15

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
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1 Anabasine

494-52-0

3

2

4

### 2. PHYSICAL / CHEMICAL DATA

**Boiling Pt. °C:** 270-272

**Physical State:** Liquid

**Appearance:** Light yellow liquid.

**Melting Pt °C:** 9.3

**Vapour Pressure @ 35°C mmHg:**

**Odour:** Strong pyridine-like.

**Vapour Density(Air =1):**

**Solubility in water at 30°C g/100ml:** Soluble

**Others:** Soluble in most organic solvents.

**Specific Gravity (Water =1 ):** 1.0455 @ 20 °C/4 °C

**pH :**

### 3. FIRE / EXPLOSION HAZARD DATA

**Flammability :** No

**LEL:**

**Flash Point °C in OC:**

**TDG Flammability:**

**UEL:**

**Flash Point °C in CC:**

**Autoignition Temperature °C :**

**Explosion sensitivity to impact:**

**Explosion sensitivity to static Electricity:**

**Hazardous Combustion Products :** When heated to decomposition toxic gases (NO<sub>x</sub>) are released.

**Hazardous Polymerization :**

**Combustible Liquid:** Yes

**Explosive Material:** No

**Corrosive Material** No

**Flammable Material:** No

**Oxidiser :** No

**Others:**

**Pyrophoric Material:** No

**Organic Peroxide :** No

### 4. REACTIVITY DATA

**Chemical Stability :** Stable

**Incompatibility with other material :** Strong oxidizing agents.

**Reactivity :**

**Hazardous** : When heated to decomposition it emits toxic fumes of nitrogen oxides.

**Reaction Products**

**5. HEALTH HAZARD DATA**

**Routes of entry:** Inhalation, Ingestion, Skin and Eyes

**Effects of Exposure / Symptoms:**

Inhalation: Initially hyperpnea is common, respiratory muscle failure resulting in death may develop.

Skin: May cause skin irritation. Toxic in contact with skin.

Eyes: May cause irritation.

Ingestion: Initial symptoms may be irritation of the mucous membranes in the mouth, followed by vomiting which may be bloody and violent

**Emergency Treatment :**

**Inhalation:** Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. If there is breathing difficulty, give oxygen and keep the person warm and at rest.

**Skin:** Flood the affected body with water and remove the contaminated clothing. Wash the affected skin thoroughly with soap and water.

**Eyes:** Flush and irrigate eyes with copious quantities of water for atleast 15 mins.

**Ingestion:** If the person is not unconscious, give him a glass or two of water and induce vomiting. Seek inimediale medical aid.

**LD50 (oral-rat) mg/kg:**

**STEL:**

**LC50 (rat) mg/kg:**

**Odour Threshold:**

**Permissible Exposure Limit:**

**TLV (ACGIH) :**

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals				

**6. PREVENTIVE MEASURES**

**Personal Protective Equipment** : Imperious clothing, gloves, face-shields, splash-proof goggles and self-contained breathing apparatus.

**Handling** : Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

**Storage** : Store in a cool, dry, well-ventilated location.

**Precautions** :

**7. EMERGENCY / FIRST AID MEASURES**

**FIRE:**

**Fire Extinguishing Media** : Dry chemical, carbon dioxide, foam.

**Special Procedure** : Use water to keep the fire-exposed containers cool.

**Unusual Hazards** :

**EXPOSURE: First Aid Measures:**

**Inhalation:** Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. If there is breathing difficulty, give oxygen and keep the person warm and at rest.

**Skin:** Flood the affected body with water and remove the contaminated clothing. Wash the affected skin thoroughly with soap and water.

**Eyes:** Flush and irrigate eyes with copious quantities of water for atleast 15 mins.

**Ingestion:** If the person is not unconscious, give him a glass or two of water and induce vomiting. Seek inimediale medical aid.

## Antidotes / Dosages:

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### SPILLS :

**Steps To Be Taken** : Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Wash the surfaces well with detergent and water.

**Waste Disposal Method:** Seal all wastes in air-tight container for eventual disposal.

## 8. ADDITIONAL INFORMATION / REFERENCES

This chemical is used as an insecticide.

## 9. MANUFACTURERS / SUPPLIERS DATA

<b>NAME OF FIRM :</b>	<b>Contact person</b>
<b>MAILING ADDRESS :</b>	<b>in Emergency :</b>
<b>TELEPHONE / TELEX NOS :</b>	<b>Local Bodies involved :</b>
<b>TELEGRAPHIC ADDRESS :</b>	<b>Standard Packing :</b>
<b>OTHERS :</b>	<b>Trem Card Details / Ref :</b>

## 10. DISCLAIMER

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