

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifier

<b>Trade Name</b>	9000278	SyNic SYNTHETIC NICOTINE	<b>Revision Date</b>	09/03/2020
<b>CAS Number</b>	54-11-5		<b>Updated on</b>	03/23/2021
<b>Synonyms</b>	(S)-1-Methyl-2-(3-pyridyl)pyrrolidine		<b>Registration #</b>	N/A

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

For professional use only

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

ELT  
 604 LIBERTY ROAD  
 ELDERSBURG, MD 21784 US  
**phone:** (410) 549-8800  
**e-mail:** Sales@eLiquiTech.com  
**website:** www.eliquitech.com

#### 1.4 Emergency telephone number

CHEMTREC 1+(703)5273887  
 1+(800)4249300

#### Additional Information

For professional use only

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

Flammable liquids Category not classified  
 Acute toxicity, oral Category 1  
 Acute toxicity, dermal Category 1  
 Aspiration hazard Category 1  
 Serious eye damage/eye irritation Category 1  
 Acute toxicity, inhalation Category 2  
 Reproductive toxicity, Category 2  
 STOT,SE Category 1  
 Hazardous to the aquatic environment, acute hazard Category 2  
 Hazardous to the aquatic environment, long-term hazard Category 2

#### 2.2 Label elements



Toxic                      Irritant                      Health Hazard                      Environmental Hazard

**Signal Word**                      Danger

#### Hazard Statements

H300-Fatal if swallowed  
 H304-May be fatal if swallowed and enters airways  
 H310-Fatal in contact with skin  
 H318-Causes serious eye damage  
 H331-Toxic if inhaled  
 H361-Suspected of damaging fertility or the unborn child  
 H370-Causes damage to organs  
 H401-Toxic to aquatic life  
 H411-Toxic to aquatic life with long lasting effects

#### Precautionary Statements

# Safety Data Sheet

## SyNic SYNTHETIC NICOTINE

### General

P271-Use only outdoors or in a well-ventilated area.

### Prevention

- P201-Obtain special instructions before use.
- P202-Do not handle until all safety precautions have been read and understood.
- P210-Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233-Keep container tightly closed.
- P260-Do not breathe dust/fume/gas/mist/vapours/spray.
- P262-Do not get in eyes, on skin, or on clothing.
- P264-Wash skin thoroughly after handling.
- P270-Do not eat, drink or smoke when using this product.
- P273-Avoid release to the environment.
- P280-Wear protective gloves/protective clothing/eye protection/face protection.

### Response

- P301+P310-IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302+P310-IF ON SKIN: Immediately call a POISON CENTER or doctor/physician
- P304+P310-IF INHALED: Immediately call a POISON CENTER or doctor/physician.
- P305+P310-IF IN EYES: Immediately call a POISON CENTER or doctor/physician.
- P306+P360-IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before removing clothes.
- P308+P313-IF exposed or concerned: Get medical advice/attention.
- P330-Rinse mouth.
- P360-Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

### Storage

P405-Store locked up.

### Disposal

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

Causes serious eye and skin irritation. Harmful if swallowed.

### 2.4 Unknown Acute Toxicity (US)

No information available.

### Additional Information

Acute Tox. 4; Carc. 1; Muta. 1; Repr. 1; STOT RE 1; STOT SE 1

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical Name	CAS Number	EC #	Concentration % by Weight	Classification
Nicotine	54-11-5	200-193-3	=100	Acute Tox. 1 Aquatic Acute 1 Aquatic Chronic 2 Skin Irrit. 2 Repr. 2 STOT SE 1

### 3.2 Mixtures

No information available.

### Additional Information

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area.

### After inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

### After skin contact

Remove all contaminated clothing. Flush skin with water. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### After eye contact

If contacts are worn, remove if possible. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### After ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control centre immediately.

### Self-protection of the first aider

Always use proper PPE.

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

Irritation of the eyes. Vapors may cause headache, fatigue, dizziness and nausea. Harmful if swallowed. May cause stomach distress or vomiting.

## 4.3 Indication of any immediate medical attention and special treatment needed

Note to Physicians: Symptoms may not appear immediately.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Alcohol resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water spray, fog

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire. Water may be ineffective because it may not cool material below its flash point.

### 5.2 Special hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

### 5.3 Advice for firefighters

May produce toxic and/or corrosive decomposition products such as carbon monoxide, carbon dioxide.

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Wear suitable protective clothing. Self-contained breathing apparatus. Ventilate closed spaces before entering them.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with eyes, skin and clothing. Use suitable protective equipment (section 8). Consult expert immediately.

### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment.

### 6.3 Methods and material for containment and cleaning up

Contain and/or absorb spill with inert material (e.g sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Prevent entry into sewers, water courses, basements or confined areas.

Scoop up material and place in a disposal container. Notify environmental authorities in the event of any reportable release of this product to the environment.

### 6.4 Reference to other sections

No information available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid breathing vapors. Avoid contact with skin, eyes and clothing. Handle in well ventilated areas. Do not breath gas/fumes/vapor/spray. Do not swallow. When using do not eat, drink or smoke. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges.

Handle in accordance with good industrial hygiene and safety practice. (See section 8)

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

STORAGE: Store in a dry, cool and well-ventilated area. Keep container tightly closed and store away from heat, open flames and other sources of ignition. Pack/store in plastic HDPE containers. Store under inert gas. Air and Light sensitive.

### 7.3 Incompatibilities/Specific end uses(s)

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## SyNic SYNTHETIC NICOTINE

**Incompatibilities** Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place. (See section 10).

**Specific end use(s)** For professional use only. (See section 1)

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Nicotine(54-11-5)

OSHA PEL	0.5 mg/m3
ACGIH TLV	0.5 mg/m3
NIOSH	0.5 mg/m3
QUEBEC	0.5 mg/m3
ONTARIO	0.5 mg/m3
BRITISH COLUMBIA	0.5 mg/m3
FRANCE OEL TWAs	0.5 mg/m3
MEXICO OEL TWAs	0.5 mg/m3
OSHA Vacated PELs -TWA	0.5 mg/m3

#### 8.2 Engineering Controls/Exposure Controls

**Engineering controls** Use only in adequate ventilation. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Environmental exposure controls** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 8.3 Protective Measures

**Eye/face protection** Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Hand protection** No information available.

**Other 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.

Full contact  
Material: butyl-rubber  
Minimum layer thickness: 0.3 mm  
Break through time: 480 min

Splash contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.4 mm  
Break through time: 30 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific scenario.

**Other protection** No information available.

**Respiratory protection** Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose 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).

**General hygiene consideration** Avoid inhalation and contact with eyes and skin. Wash after any contact, before breaks and meals. Contaminated clothing should be cleaned before reuse.

**Thermal hazards** No information available.

### SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Property	Value
(n-octanol/water)	No data available.
Appearances	Free flowing liquid
Auto-ignition temperature	No data available.
Color	Colorless to yellow to light amber
Decomposition temperature	No data available.
Evaporation Rate	No data available.
Flammability (solid or gas)	No data available.
Flash Point	> 93.3°C
Initial boiling point & range	No data available.
Odor	No data available
Odor Threshold Values	No data available.
Partition coefficient	No data available.
Relative density	No data available.
Solubility(ies)	Propylene glycol, glycerin
Specific Gravity @ 20.0 °C	No data available
Storage Conditions	Room temperature in unopened container away from direct sunlight
Upper/Lower flammability	No data available.
Vapor Densities	No data available.
Vapor Pressures	No data available.
Viscosity	No data available.
Explosive limits	No data available.
pH (10% IN DISTILLED WATER)	No data available.
pH Value	No data available.

**Property**

**Value**

### 9.2 Other information

#### Additional Information

This mixture has not been tested as a whole.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal storage conditions and handling conditions (see Section 7)

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Exposure to air. Direct sunlight

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides.

#### Additional Information

This product has not been tested as a whole

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Source

#### Skin contact

No information available.

<b>Eye contact</b>	No information available.
<b>Inhalation</b>	No information available.
<b>Ingestion</b>	No information available.
<b>Symptoms related to characteristics</b>	No information available.
<b>Acute effects</b>	No information available.
<b>Chronic effects</b>	No information available.

### Numerical measures of Toxicity

#### Nicotine (54-11-5)

LD50 DERMAL RABBIT	= 50 mg/kg
LD50 ORAL RAT	= 50 mg/kg

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory sensitization</b>	No information available.
<b>Skin sensitization</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Specific target organ toxicity - single exposure</b>	No information available.
<b>Specific target organ toxicity - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

### Additional Information

Prolonged or repeated exposure can cause: Vomiting, Diarrhea, Convulsions. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. This product has not been tested as a whole.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish semi-static test NOEC - *Oncorhynchus mykiss* (rainbow trout) - 3 mg/l - 96 h  
(OECD Test Guideline 203)  
Toxicity to daphnia and other aquatic invertebrates  
semi-static test EC50 - *Daphnia magna* (Water flea) - 3 mg/l - 48 h  
(OECD Test Guideline 202)  
Toxicity to algae static test ErC50 - *Desmodesmus subspicatus* (green algae) - 37 mg/l - 72 h  
(OECD Test Guideline 201)  
static test NOEC - *Desmodesmus subspicatus* (green algae) - 3.2 mg/l - 72 h  
(OECD Test Guideline 201)

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### 12.2 Persistence and degradability

Toxicity to fish semi-static test NOEC - *Oncorhynchus mykiss* (rainbow trout) - 3 mg/l - 96 h  
(OECD Test Guideline 203)  
Toxicity to daphnia and other aquatic

invertebrates  
 semi-static test EC50 - Daphnia magna (Water flea) - 3 mg/l - 48 h  
 (OECD Test Guideline 202)  
 Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 37  
 mg/l - 72 h  
 (OECD Test Guideline 201)  
 static test NOEC - Desmodesmus subspicatus (green algae) - 3.2  
 mg/l - 72 h  
 (OECD Test Guideline 201)

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

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

Toxic to aquatic life with long lasting effects.

Insecticide

Hazard for drinking water supplies.

Discharge into the environment must be avoided.

### 12.7 Additional Information

#### Additional Information

This product has not been tested as a whole.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Handling for disposal** Waste must be disposed of in accordance with local/regional/national/international regulations.

**Methods of disposal** Waste must be disposed of in accordance with local/regional/national/international regulations.

**Contaminated packaging** Dispose of as unused product.

#### Additional Information

This product has not been tested as a whole.

## SECTION 14: Transport Information

### D.O.T. Ground/Rail

<b>14.1 UN number</b>	UN1654
<b>14.2 UN proper shipping name</b>	UN1654,Nicotine,6.1, PGII
<b>14.3 Transport hazard class(es)</b>	6.1
<b>14.4 Packing group</b>	II

### Air Transport

<b>14.1 UN number</b>	UN1654
<b>14.2 UN proper shipping name</b>	UN1654,Nicotine,6.1, PGII
<b>14.3 Transport hazard class(es)</b>	6.1
<b>14.4 Packing group</b>	II

### Sea Transport

# Safety Data Sheet

## SyNic SYNTHETIC NICOTINE

**14.1 UN number** UN1654  
**14.2 UN proper shipping name** UN1654,Nicotine,6.1, PGII  
**14.3 Transport hazard class(es)** 6.1  
**14.4 Packing group** II

**D.O.T/ADR/RID - Ground transportation**

**Sea transport (IMDG)**

**Air transport (ICAO/IATA)**

### 14.5 Environmental hazards

No information available

### 14.6. Special precautions for user

No information available

### 14.7. Transport in bulk according to Annex II of Marpol112 and the IBC Code

Follow DOT,IATA/ ICAO, IMDG/ IMO under proper shipping name

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU - REACH (1907/2006) - List of Pre-registered Substances

Nicotine (54-11-5) November 30, 2010 ([200-193-3])

#### EU - REACH (1907/2006) - List of Registered Substances

Nicotine (54-11-5) Present

#### EU - REACH (1907/2006) - Registered Substances Considered not to be PBT/vPvB

Nicotine (54-11-5) Present

### 15.2 Chemical Safety Assessment

No information available

## SECTION 16: Other information

**Specific Hazard:**

**HMIS Ratings :**

<b>HEALTH</b>	4
<b>FLAMMABILITY</b>	1
<b>PHYSICAL HAZARD</b>	1
<b>PERSONAL PROTECTION</b>	X

4 - Deadly

1 - Above 200°F

1-Normally stable, but can become unstable at high temperatures and pressures.

X- Ask Supervisor or Safety Specialist for Handling Instructions

**SDS Web Address:** N/A

**Other Information:** Containers should be either reconditioned by certified firms or properly disposed of by approved firms. Disposal of containers should be in accordance with applicable laws and regulations. "empty" drums should not be given to individuals. Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive material. Cutting or welding of empty containers may cause fire, explosion, or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep containers closed and drum bungs in place.

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Conforms to OSHA HazCom 2012 Standard  
Preparation/Revision Date: 09/03/2020

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