

# Nicotine Solution

MSDS # 487.00

**Section 1: Product and Company Identification****Nicotine Solution****Synonyms/General Names:** Cigarette Water Extract: 1 mg / 10 mL**Product Use:** For educational use only**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.**24 Hour Emergency Information Telephone Numbers****CHEMTREC (USA): 800-424-9300****CANUTEC (Canada): 613-424-6666**

Scholar Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

**Section 2: Hazards Identification***Brownish-tan liquid, mild sweet odor.***HMIS (0 to 4)**

<b>Health</b>	<b>3</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>

**DANGER!** Highly toxic, poison by ingestion. Highly toxic by skin absorption. Teratogen.

Target organs: Central nervous system. Skeletal muscle. Peripheral nervous system. Gastro-intestinal system.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Section 3: Composition / Information on Ingredients**

Nicotine (54-11-5) 0.1%.

Water (7732-18-5), &gt;99%.

**Section 4: First Aid Measures***Always seek professional medical attention after first aid measures are provided.***Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.**Ingestion:** Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink. Induce vomiting immediately.**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.**Section 5: Fire Fighting Measures**Non-combustible solution. When heated to decomposition, emits acrid NO<sub>x</sub> fumes.**Protective equipment and precautions for firefighters:** Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.

**Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

**Section 7: Handling and Storage****Blue****Handling:** Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.**Storage:** Store in Toxic Storage Area [Blue Storage] with other toxic material. Store in a dedicated poison cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.**Section 8: Exposure Controls / Personal Protection**

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with a dust cartridge.

Exposure guidelines: Barium compounds: OSHA PEL: 0.5 mg/m<sup>3</sup>, ACGIH: TLV: 0.5 mg/m<sup>3</sup>, STEL: Not Available.

**Section 9: Physical and Chemical Properties**

<b>Molecular formula</b>	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> .	<b>Appearance</b>	Tan solution.
<b>Molecular weight</b>	162.24.	<b>Odor</b>	No odor.
<b>Specific Gravity</b>	N/A.	<b>Odor Threshold</b>	N/A.
<b>Vapor Density (air=1)</b>	N/A.	<b>Solubility</b>	Soluble in water.
<b>Melting Point</b>	N/A.	<b>Evaporation rate</b>	N/A. ( <i>Butyl acetate = 1</i> ).
<b>Boiling Point/Range</b>	N/A.	<b>Partition Coefficient</b>	N/A. ( <i>log P<sub>ow</sub></i> ).
<b>Vapor Pressure (20°C)</b>	N/A.	<b>pH</b>	N/A.
<b>Flash Point:</b>	N/A.	<b>LEL</b>	N/A.
<b>Autoignition Temp.:</b>	N/A.	<b>UEL</b>	N/A.

N/A = Not available or applicable

**Section 10: Stability and Reactivity**

**Stability:** Stable under normal conditions of use and storage. Avoid heat and ignition sources.

**Incompatibility:** Strong oxidizers, acids

**Shelf life:** Indefinite if stored properly.

**Section 11: Toxicology Information**

**Acute Symptoms/Signs of exposure:** *Eyes:* Redness, tearing, itching, burning, conjunctivitis. *Skin:* Redness, itching.

*Ingestion:* Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. *Inhalation:* Irritation of mucous membranes, coughing, wheezing, shortness of breath,

**Chronic Effects:** No information found.

**Sensitization:** none expected

*Nicotine:* LD50 [oral, rat]; 50 mg/kg; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A

*Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.*

**Section 12: Ecological Information**

**Ecotoxicity (aquatic and terrestrial):** Toxic to beneficial microorganisms (e.g. soil and sewage treatment microorganisms).. Do not release to environment.

**Section 13: Disposal Considerations**

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

**Section 14: Transport Information**

<b>DOT Shipping Name:</b>	Nicotine.	<b>Canada TDG:</b>	Nicoitne.
<b>DOT Hazard Class:</b>	6.1, pg II.	<b>Hazard Class:</b>	6.1, pg II.
<b>Identification Number:</b>	UN1654.	<b>UN Number:</b>	UN1654.

**Section 15: Regulatory Information**

**EINECS:** Listed.

**TSCA:** All components are listed or are exempt.

**WHMIS Canada:** D1B: Toxic material causing immediate/serious effects.

**California Proposition 65:** Listed.

*The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

**Section 16: Other Information**

**Current Issue Date:** January 3, 2012

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