

**Material Safety Data Sheet**  
**10% (-)-Nicotine Solution**

**Section 1: Chemical Product and Company Identification**

**Product Name:** 10% (-)-Nicotine Solution  
**Catalog Codes:** NS-100MG-60ML, NS-100MG-120ML,  
NS-100MG-250ML, NS-100MG-500ML, NS-100MG-1GAL

**Synonyms:** 100mg/ml Nicotine Solution  
**CAS#:** Mixture  
54-11-5, 56-81-5, 57-55-6

**Contact Information:**  
Wizard Labs  
6808 Hanging Moss Rd.  
Orlando, Florida 32807  
(321) 422-0803  
www.wizardlabs.us  
**CHEMTREC (24HR Emergency Telephone):** 1-800-424-9300

**Section 2: Hazards Identification**

**Emergency Overview:** Harmful in case of ingestion, of skin contact, of eye contact, of inhalation.

**Potential Chronic Health Effects:**

Carcinogenic Effects: Not available

Mutagenic Effects: Not available

Teratogenic Effects: Not available

Target organs: Central nervous system, cardiovascular system, gastro-intestinal system, nervous system, upper respiratory tract. Repeated or prolonged exposure may produce target organ damage.

**Section 3: Composition / Ingredient Information**

**Principal Hazardous Component:** Nicotine (54-11-5) – 10% w/v  
**Other Ingredients:** Propylene Glycol (57-55-6), Glycerin (56-81-5) - Balance

**Section 4: First Aid Measures**

**Eyes:** Immediately flush the eyes with water or eye wash solution for 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention.

**Skin:** Remove contaminated clothing and wash the affected area immediately with soap and cold water. Seek medical attention.

**Ingestion:** Call Poison Control immediately. Rinse mouth with cold water. Seek medical attention. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel.

**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration. Seek medical attention.

**Section 5: Firefighting Measures**

**Product Flammability:** Not flammable or combustible.

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

**Protective Equipment:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**NFPA Rating:**

Health: 2

Fire: 1

Reactivity: 0



**Section 6: Accidental Release Measures**

**Personal Precautions:** Use personal protection recommended in Section 8.

**Environmental Precautions:** Isolate the hazard area and evacuate unprotected personnel to safe area. Ventilate area and contain spill with sand or absorbent material. Prevent large spills from entering drains. Discharge into the environment or waterways must be avoided. Place all contaminated 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

**Handling:** Avoid contact with skin and eyes. Use with adequate ventilation and avoid breathing vapor or fumes.

**Storage:** Keep container tightly closed in a cool, dry, well-ventilated place. Containers that are opened must be resealed and stored upright to prevent leakage. Air and light sensitive. Hygroscopic.

### Section 8: Exposure Controls / Personal Protection

**Eye Protection:** Chemical splash goggles should be worn. Eyewash bottle or station should be readily available.

**Respiratory Protection:** None needed under normal conditions of use with adequate ventilation. Use NIOSH/MSHA chemical cartridge respirator if PEL or TVL is exceeded.

OSHA PEL: 0.5 mg/m<sup>3</sup>, ACGIH TLV: 0.5mg/m<sup>3</sup>

**Skin Protection:** Chemical resistant clothing and gloves should be worn. Wash hands thoroughly after handling material and before eating or drinking.

### Section 9: Physical and Chemical Properties

**Appearance:** Clear to yellow/brown liquid

**Odor:** Fish (Slight)

**Taste:** Sweet, acrid, peppery

**Molecular Weight:** NA

**Density:** 1.03 to 1.26 g/cm<sup>3</sup> at 20°C

**pH:** NA

**Solubility:** Completely miscible

**Boiling Point:** NA

**Melting Point:** NA

**Volatility:** NA

### Section 10: Stability and Reactivity

**Chemical stability:** Stable

**Conditions to avoid:** NA

**Incompatibility:** Strong oxidizers, acids

**Hazardous decomposition products:** Carbon oxides, and nitrogen oxides formed under fire conditions.

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

### Section 11: Toxicology Information

**Toxicity Data:**

**Acute oral toxicity (LD50):** 483 mg/kg (Rat) (Calculated for mixture)

**Acute dermal toxicity (LD50):** 1124 mg/kg (Rabbit) (Calculated for mixture)

**Acute inhalation toxicity (LC50):** NA

**Chronic Effects:** NA

### Section 12: Ecological Information

**Ecotoxicity:** Toxic to aquatic life. Discharge into the environment or waterways must be avoided.

**EPA Waste Numbers:** NA

### Section 13: Disposal Considerations

**Waste Disposal:** Dispose in accordance with federal, state and local environmental control regulations.

### Section 14: Transportation Information

**DOT Classification:** Not regulated for transport

This mixture does not qualify as Class 6, Division 6.1 Hazardous Material per DOT CFR 49 § 173.132

#### Section 15: Regulatory Information

**EPA TSCA Status:** On TSCA inventory  
**CERCLA Section 103 RQ(lb.):** Nicotine – 100 lbs  
**RCRA Section 261.33:** NA  
**California Prop 65:** Listed

#### Section 16: Other Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Wizard Labs makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material. Wizard Labs makes no warranty, expressed or implied, including (without limitation) warranties with respect to the completeness or continuing accuracy of the information contained herein or with respect to fitness for any particular use.

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