Section 1: Chemical Product and Company Identification

Product Name: Nicotine Ditartrate in VG (Nicotine -100 mg/ml)
Catalog Codes: ND-100MG-60ML, ND-100MG-120ML, ND-100MG-250ML, ND-100MG-500ML, ND-100MG-1GAL
Synonyms: 100mg/ml Nicotine Salt Solution
CAS#: Mixture
54-11-5, 87-69-4, 56-81-5

Contact Information:
Wizard Labs
927 Fern Street Suite 1000
Altamonte Springs, Florida 32701
(321) 422-0803
wizardlabs.us

CHEMTREC (24HR Emergency Telephone): 1-800-424-9300 (Only within the boundaries of the US and Canada.)

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: Tartaric Acid (87-69-4), Glycerin (56-81-5) - Balance

Section 4: First Aid Measures

Eyes: Remove contact lenses if applicable. 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: Avoid gross inhalation of fumes. Remove victim to fresh air. If not breathing, give artificial respiration. Seek medical attention.

Section 5: Firefighting Measures

Product Flammability:
Nicotine
May be combustible at high temperatures
Auto-Ignition Temp is 244° C
Flash Points: Closed Cup: 101° C
Flammable Limits: 0.7%-Upper: 4%
Products of Combustion: Carbon Oxides (CO, CO2), Nitrogen Oxides (NO, NO2)
Explosive Hazards: Not available
Fire Hazards: Slightly flammable to flammable in presence of heat, open flames, and sparks

Tartaric Acid
May be combustible at high temperatures
Auto-Ignition Temp is 425° C
Flash Points: OPEN CUP: 210° C
Flammable Limits: No available
Products of Combustion: These products are carbon oxides (CO, CO2)
Explosion Hazards in presence of various substances: Risks of explosion of the product in presence of mechanical impact: Not available
Risks of explosion of the product in presence of static discharge: Not available
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam, Do NOT just water jet.

Vegetable Glycerin
Flammability: May be combustible at high temperature.
Auto-Ignition Temp: 370 C
Flash Points: Closed Cup: 160 C/ Open Cup: 199 C
Flammable Limits: lower: 0.9%
Products of Combustion: Carbon Oxides (CO, CO2)
Explosive Hazards: Not Available
Fire Hazards: Slightly flammable to flammable in presence of heat, open flames, and sparks. Explosive in presence of oxidizing materials.

Suitable Extinguishing Media: Use water spray, carbon dioxide, dry chemical powder or foam.

Unsuitable Extinguishing Media: Do not use extinguishing media containing oxidizing agents.

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

**NPFA Rating:**
- Health: 2
- Fire: 1
- Reactivity: 0

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**Section 6: Accidental Release Measures**

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

**Small Spill:** Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large Spill:** Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements of confined areas. Call for assistance on disposal.

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**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. Hydroscopic.

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**Section 8: Exposure Controls / Personal Protection**

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Splash goggles, Lab coat, Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Personal Protection (Large Spills):** Splash goggles, full suit, vapor respirator, boots and gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product

**Exposure Limits:** Nicotine: United States (OSHA) 0.5 mg/m3

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**Section 9: Physical and Chemical Properties**

**Appearance:** Clear to light yellow liquid

**Odor:** Slightly pungent

**Vapor Pressure:** Not Available

**Vapor Density (air=1):** Not Available

**Specific Gravity:** 1.23 – 1.28 g/cm³

**Solubility:** Soluble in chloroform

**Boiling Point:** Not Available

**Melting Point:** Not Available

**Volatile:** Not Available

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**Section 10: Stability and Reactivity**

**Chemical stability:** Chemically Stable. This material presents no significant reactivity hazards.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous Polymerization:** Will not occur.

**Hazardous Combustion:** None known.

**Decomposition Products:** When heated to decomposition produces toxic fumes/carbon monoxide smoke.
Section 11: Toxicology Information

**Acute toxicity**
- **Oral:** Acute Tox. 3: H301, ATE = 5 mg/kg. ATE calculation for mixture: 220-260 mg/kg.
- **Derma:** Based upon the available data, the classification criteria are not met. ATE = 70 mg/kg. ATE calculation for mixture > 3000 mg/kg.
- **Inhalation:** Based upon the available data, the classification criteria are not met. ATE = 0.19 mg/L (dusts/mists). ATE calculation for mixture > 5 mg/L.
- **Skin corrosion/irritation:** Based upon the available data, the classification criteria are not met.
- **Eye damage/irritation:** Based upon the available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based upon the available data, the classification criteria are not met.
- **Carcinogenicity:** Based upon the available data, the classification criteria are not met.
- **Aspiration hazard:** Based upon the available data, the classification criteria are not met.

**Ingestion:** Gastrointestinal signs and symptoms include mouth and throat burning followed by profuse salivation, nausea, vomiting, abdominal pain and occasionally diarrhea. Convulsions may occur.

**Inhalation:** Dizziness, nausea or vomiting may occur. There may be irritation of the throat with a feeling of tightness in the chest.

**Skin contact:** There may be irritation and redness at the site of contact. Absorption of nicotine through the skin may occur causing symptoms similar to those of inhalation/ingestion.

**Eye contact:** There may be irritation and redness. Delayed/immediate effects: immediate effects can be expected after short-term exposure.

Section 12: Ecological Information

**Nicotine**
- Toxicity: Fish (fresh water) Toxic: 3-29ppm Fish (Onchorhynchus mykiss) 96hr: LCS0 = 4mg/l, Daphnia (Daphnia magna) 48hr: LCS0 = 0.24mg/l
- Degradability: Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
- Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.
- Accumulation: Bioaccumulation Estimates from Log Kow (BCFWIN v2.17): Log BCF from regression-based method= 0.201 (BCF = 1.588) log ow used: 1.17 (expkow database)

**Vegetable Glycerin (VG)**
- Toxicity: No aquatic environmental information is available on this product.
- Degradability: This product is completely biodegradable
- Accumulation: Bioaccumulation of this product has not been determined.
- Mobility in Soil: Mobility of this material has not been determined. Low potential for sorption to soil. Glycerine will partition primarily to water.

**Tartaric acid**
- Ecotoxicity: Not available. BODS and COD: Not available.
- Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
- Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
- Special Remarks on the Products of Biodegradation: Not available

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
**IATA 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
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