Section 1. Identification

Product Name: Nicotine.
Synonyms: N/A

Company Address: 1909 West Oakridge Drive, Albany, GA 31707
Email: info@usliquidnicotine.com
Web: usliquidnicotine.com

Section 2. Hazards Identification

Emergency Overview

OSHA Hazards
Target Organ Effect, Highly toxic by ingestion, Highly toxic by skin absorption

Target Organs
Peripheral nervous system, Central nervous system, Skeletal muscle, Gastro-intestinal system

GHS Classification
Acute toxicity, Oral (Category 2)
Acute toxicity, Dermal (Category 1)
Acute aquatic toxicity (Category 1)
GHS Label Elements, including precautionary statements

Pictogram

Signal Word

Danger!

Hazard statement(s)
H300 + H310 Fatal if swallowed or in contact with skin
H400 Very toxic to aquatic life.

Precautionary statement(s)
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing.
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
P310 Immediately call a POISON CENTER or doctor/physician.
Section 3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicotine</td>
<td>54-11-5</td>
<td>&gt;99.9</td>
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</tbody>
</table>

Section 4. First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek immediate medical attention.

**Ingestion:** If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious person. Take victim to the hospital immediately.

**Skin Contact:** Remove/Take off immediately all contaminated clothing. Wash skin with plenty of soap and water. Take victim to the hospital immediately.

**Eye Contact:** Rinse cautiously with water. Remove contact lenses, if present and easy to do. Take victim to the hospital immediately.

Section 5. Fire-fighting Measures

**Conditions of Flammability:** Not flammable or combustible

**Products of Combustion:** Carbon monoxide, carbon dioxide, nitrogen oxides.

**Specific Fire/Explosion Hazards:** Containers exposed to high temperatures may rupture.

**Fire Fighting Media:** Use carbon dioxide, dry chemical or water spray.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Section 6. Accidental Release Measures

**Personal Precautions:** Wear respiratory protection. Do not inhale vapors or mist. Evacuate personnel to a safe area.

**Environmental Precautions:** Do not allow to enter public drains or watercourses. If contamination occurs, immediately inform appropriate authorities. Use appropriate containment to avoid environmental contamination.

**Clean Up Action:** Absorb spillage with inert material. Shovel into appropriate container. Ventilate area and wash the spill site.
Section 7. Handling and Storage

Precautions: Avoid contact with skin or eyes. Do not breathe vapor or ingest. Use appropriate personal protection equipment. No smoking, eating, or drinking near application site.

Storage: No smoking. Keep containers tightly closed. Store in a well-ventilated place. Do not store near an open flame, heat, or other source of ignition. Protect from direct sunlight. Store away from incompatible materials.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Facilities storing or using the material should be equipped with eyewash station and a safety shower. Use adequate general or local exhaust ventilation.

Personal Protection:

Hand 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 protection
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: > 30 min

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face 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).

Eye protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Avoid contact with skin, eyes and clothing. Wash hands immediately after handling the product.

Components with workplace control parameters
Components CAS-No. Value Control
parameters
Basis
Nicotine 54-11-5 TWA
0.5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1
Limits for Air Contaminants
Remarks Skin designation
TWA
0.5 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
1910.1000
Skin notation
TWA
0.5 mg/m³ USA. NIOSH Recommended Exposure Limits
Potential for dermal absorption
TWA
0.5 mg/m³ USA. ACGIH Threshold Limit Values (TLV)
Central Nervous System impairment Gastrointestinal damage Cardiac impairment Danger of cutaneous absorption

Section 9. Physical and Chemical Properties

Appearance
Form clear, liquid
Color dark brown

Safety data
Melting point/range: -79 °C (-110 °F)
Boiling point 247 °C (477 °F) at 993 hPa (745 mmHg)
Flash point 101 °C (214 °F) - closed cup
Ignition temperature 244 °C (471 °F)
Autoignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Vapour pressure 0.051 hPa (0.038 mmHg) at 25 °C (77 °F)
Density 1.010 g/cm³ at 20 °C (68 °F)
Water solubility completely miscible

Section 10. Stability and Reactivity

Reactivity: No data available.
Stability: Stable under recommended storage conditions
Possibility of Hazardous Reactions: No data available
Conditions to Avoid: No data available
Incompatible Materials: Avoid contact with strong oxidizers such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products: May include nitrogen and carbon oxides
Section 11. Toxicological Information

Acute toxicity

Oral LD50
LD50 Oral - rat - 50 mg/kg

Inhalation LC50
no data available

Dermal LD50
no data available

Other information on acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

Teratogenicity
Possible risk of congenital malformation in the fetus.

Specific target organ toxicity - single exposure (Globally Harmonized System)
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be fatal if swallowed.

Skin May be fatal if absorbed through skin. May cause skin irritation.

Eyes May be fatal if absorbed through eyes. May cause eye irritation.

Signs and Symptoms of Exposure
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.

Synergistic effects
no data available

See section 2 for symptoms of acute and chronic toxicity.
Section 12. Ecological Information

Toxicity
Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 4 mg/l - 96.0 h
Toxicity to daphnia
and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 0.24 mg/l - 48 h
Persistence and degradability
no data available
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

Section 13. Disposal Considerations

Do not dispose of waste into sewer. Do not contaminate waterways with product. Dispose of material and container by sending to a licensed waste management company.

Section 14. Transport Information

U.S. DOT
Proper Shipping Name: Nicotine
UN Number: UN 1654
Hazard Class: 6.1 Poisonous Material
Packing Group: II

Section 15. Regulatory Information

OSHA Hazards:
Highly toxic by ingestion. Highly toxic by skin absorption. Teratogen.

SARA 302 Components:
The following components in this product are required to be reported under SARA Title III, Section 302.
Nicotine CAS# 54-11-5

SARA 313 Components:
The following components in this product are required to be reported under SARA Title III, Section 313.
Nicotine CAS# 54-11-5
SARA 311/312 Hazards:
Acute health hazard. Chronic health hazard.

Massachusetts Right To Know Components
Nicotine CAS# 54-11-5

Pennsylvania Right To Know Components
Nicotine CAS# 54-11-5

New Jersey Right To Know Components
Nicotine CAS# 54-11-5

California Prop. 65 Components
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Nicotine CAS# 54-11-5

Section 16. Other Information

Date Created: 04/19/2014

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

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