

# SAFETY DATA SHEET

## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

**Product ID:** 491835  
**Product Name:** Neutrazen Lemon Ice  
**Revision Date:** Jan 24, 2020  
**Version:** 2.0  
**Manufacturer's Name:** Zenex International  
**Address:** 1 Zenex Circle Cleveland, OH, US, 44146  
**Emergency Phone:** 1-800-535-5053  
**Information Phone Number:** (440)-232-4155  
**Fax:**  
**Product/Recommended Uses:** Air freshener

**Date Printed:** Jan 30, 2020  
**Supersedes Date:** Nov 15, 2016

## SECTION 2) HAZARDS IDENTIFICATION

### Classification

Aerosols - Category 1  
Gases Under Pressure - Compressed Gas  
Eye Irritation - Category 2A  
Skin Sensitizer - Category 1  
Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

### Pictograms



### Signal Word

Danger

### Hazardous Statements - Physical

H222 - Extremely flammable aerosol.  
H280 - Contains gas under pressure; may explode if heated.

### Hazardous Statements - Health

H319 - Causes serious eye irritation.  
H317 - May cause an allergic skin reaction.  
H336 - May cause drowsiness or dizziness.

### Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.

### Precautionary Statements - Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, eye protection and face protection.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P261 - Avoid breathing mist, vapors or spray.

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

#### Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P363 - Wash contaminated clothing before reuse.

P333 + P313 - If skin irritation or a rash occurs: Get medical attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a POISON CENTER or doctor if you feel unwell.

#### Precautionary Statements - Storage

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P403 + P405 - Store in a well-ventilated place. Store locked up.

#### Precautionary Statements - Disposal

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

### SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS

| CAS          | Chemical Name                             | % By Weight |
|--------------|---|-------------|
| 0000067-64-1 | ACETONE                                   | 60% - 80%   |
| 0000106-97-8 | BUTANE                                    | 10% - 20%   |
| 0000074-98-6 | PROPANE                                   | 10% - 20%   |
| 0005392-40-5 | CITRAL                                    | 0.1% - 1%   |
| 0008008-56-8 | Oils, lemon                               | 0.1% - 1%   |
| 0068647-72-3 | Terpenes and Terpenoids, sweet orange-oil | 0.1% - 1%   |

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

### SECTION 4) FIRST-AID MEASURES

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

#### Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### Skin Contact

Remove contaminated clothing immediately. Wash with plenty of soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

## Ingestion

In the unlikely event of swallowing, contact a physician or POISON CENTER. Rinse mouth.

## Most Important Symptoms/Effects, Acute and Delayed

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

## Indication of Immediate Medical Attention and Special Treatment Needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# SECTION 5) FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Alcohol resistant foam, powder, carbon dioxide (CO<sub>2</sub>).

## Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

## Specific Hazards in Case of Fire

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

## Fire-Fighting Procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure to build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

## Special Protective Actions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces: SCBA.

# SECTION 6) ACCIDENTAL RELEASE MEASURES

## Emergency Procedure

Ventilate closed spaces before entering them. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Local authorities should be advised if significant spillages cannot be contained.

## Recommended Equipment

For personal protection, see section 8 of the SDS. Wear appropriate protective equipment and clothing during clean-up.

## Personal Precautions

Avoid breathing mist or vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

## Environmental Precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## Methods and Materials for Containment and Cleaning up

Refer to safety data sheet and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

**Small spill:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

## SECTION 7) HANDLING AND STORAGE

### General

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Ventilation Requirements

Use in a well-ventilated place.

### Storage Room Requirements

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye Protection

Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored.

### Skin Protection

Use solvent-resistant protective gloves for prolonged or repeated contact.

### Respiratory Protection

Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

### Appropriate Engineering Controls

Ventilation should be sufficient to prevent inhalation of any vapors.

| Chemical Name | OSHA TWA (mg/m3) | OSHA TWA (ppm) | OSHA STEL (mg/m3) | OSHA Carcinogen | OSHA Skin designation | OSHA Tables (Z1, Z2, Z3) | ACGIH TWA (mg/m3) | ACGIH TWA (ppm) |
|---------------|------------------|----------------|-------------------|-----------------|-----------------------|--------------------------|-------------------|-----------------|
| CITRAL        |                  |                |                   |                 |                       |                          |                   | 5 (IFV)         |
| ACETONE       | 2400             | 1000           |                   |                 |                       | 1                        |                   | 250             |
| BUTANE        |                  |                |                   |                 |                       |                          |                   |                 |
| PROPANE       | 1800             | 1000           |                   |                 |                       | 1                        |                   |                 |

| Chemical Name | NIOSH STEL (ppm) | ACGIH STEL (mg/m3) | ACGIH STEL (ppm)                             | ACGIH Carcinogen | ACGIH TLV Basis                   | ACGIH Notations | NIOSH TWA (mg/m3) | NIOSH TWA (ppm) |
|---------------|------------------|--------------------|--|------------------|-----------------------------------|-----------------|-------------------|-----------------|
| CITRAL        |                  |                    |  | A4               | Body weight eff; URT irr; eye dam | Skin; DSEN; A4  |                   |                 |
| ACETONE       |                  |                    | 500  | A4               | URT & eye irr; CNS impair         | A4; BEI         | 590               | 250             |
| BUTANE        |                  |                    | 1000 (EX)                                    |                  | CNS impair                        |                 | 1900              | 800             |
| PROPANE       |                  |                    | Simple asphyxiant (D), explosion hazard (EX) |                  | Asphyxia                          |                 | 1800              | 1000            |

| Chemical Name | NIOSH STEL (mg/m3) | OSHA STEL (ppm) | NIOSH Carcinogen |
|---------------|--------------------|-----------------|------------------|
| CITRAL        |                    |                 |                  |
| ACETONE       |                    |                 |                  |
| BUTANE        |                    |                 |                  |
| PROPANE       |                    |                 |                  |

(C) - Ceiling limit, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, impair - Impairment, irr - Irritation, URT - Upper respiratory tract

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

|                       |                             |
|-----------------------|-----------------------------|
| Density               | 5.70 lb/gal                 |
| Density VOC           | 1.65 lb/gal                 |
| % VOC                 | 29%                         |
| <hr/>                 |                             |
| Appearance            | N.A.                        |
| Odor Threshold        | N.A.                        |
| Odor Description      | N.A.                        |
| pH                    | N.A.                        |
| Water Solubility      | N.A.                        |
| Flammability          | Flash point below 73°F/23°C |
| Vapor Pressure        | 56 - 68 psig (20°C), est.   |
| Flash Point           | -156°F, est.                |
| Viscosity             | N.A.                        |
| Lower Explosion Level | 2.4%, est.                  |
| Upper Explosion Level | 11.8%, est.                 |
| Vapor Density         | N.A.                        |
| Melting Point         | N.A.                        |
| Freezing Point        | N.A.                        |
| Low Boiling Point     | 133°F, est.                 |
| High Boiling Point    | N.A.                        |
| Decomposition Pt      | N.A.                        |
| Auto Ignition Temp    | 869°F, est.                 |
| Evaporation Rate      | Slower than ether           |

## SECTION 10) STABILITY AND REACTIVITY

### Stability

The product is stable under normal storage conditions.

### Conditions to Avoid

Contact with incompatible materials.

### Incompatible Materials

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

### Hazardous Reactions/Polymerization

Hazardous polymerization does not occur.

### Hazardous Decomposition Products

No hazardous decomposition products are known.

## SECTION 11) TOXICOLOGICAL INFORMATION

### Skin Corrosion/Irritation

No data available.

### Likely Route of Exposure

Inhalation, skin absorption.

### Serious Eye Damage/Irritation

Causes serious eye irritation.

### Carcinogenicity

No data available.

### Germ Cell Mutagenicity

No data available.

### Reproductive Toxicity

No data available.

### Respiratory/Skin Sensitization

May cause an allergic skin reaction.

### Specific Target Organ Toxicity - Single Exposure

May cause drowsiness or dizziness.

### Specific Target Organ Toxicity - Repeated Exposure

No data available.

### Aspiration Hazard

No data available.

### Acute Toxicity

No data available.

### Potential Health Effects - Miscellaneous

0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

0000067-64-1 ACETONE

LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m<sup>3</sup> (4-hour exposure) (29)

LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m<sup>3</sup> (4-hour exposure) (29)

LD50 (oral, female rat): 5800 mg/kg (24)

LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)

LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)

LD50 (oral, mouse): 3000 mg/kg (32, unconfirmed)

LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg) (30)

0000106-97-8 BUTANE

LC50 (mouse): 202000 ppm (481000 mg/m<sup>3</sup>) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)

LC50 (rat): 276000 ppm (658000 mg/m<sup>3</sup>) (4-hour exposure); cited as 658 mg/L (4-hour exposure) (9)

## SECTION 12) ECOLOGICAL INFORMATION

### Toxicity

Harmful to aquatic life with long lasting effects.

### Persistence and Degradability

No data available.

### Bio-Accumulative Potential

Log Kow, Acetone: -0.24

Log Kow, Butane: 2.89

Log Kow, Propane: 2.36

### Mobility in Soil

No data available.

### Other Adverse Effects

No data available.

## SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

## SECTION 14) TRANSPORT INFORMATION

|                                  | IATA Information    | IMDG Information  | U.S. DOT Information |
|----------------------------------|---------------------|-------------------|----------------------|
| <b>UN number:</b>                | UN1950              | UN1950            | UN1950               |
| <b>Proper shipping name:</b>     | Aerosols, flammable | Aerosols          | Aerosols             |
| <b>Hazard class:</b>             | 2.1                 | 2.1               | 2.1                  |
| <b>Packaging group:</b>          | NA                  | NA                | NA                   |
| <b>Hazardous substance (RQ):</b> |                     |                   | No Data Available    |
| <b>Marine Pollutant:</b>         |                     | No Data Available | No Data Available    |
| <b>Note / Special Provision:</b> | (LTD QTY)           | (LTD QTY)         | (LTD QTY)            |
| <b>Toxic-Inhalation Hazard:</b>  |                     |                   | No Data Available    |

## SECTION 15) REGULATORY INFORMATION

| CAS          | Chemical Name                             | % By Weight | Regulation List                     |
|--------------|---|-------------|-------------------------------------|
| 0000067-64-1 | ACETONE                                   | 60% - 80%   | CERCLA,SARA312,TSCA,RCRA,ACGIH,OSHA |
| 0000106-97-8 | BUTANE                                    | 10% - 20%   | SARA312,VOC,TSCA,ACGIH              |
| 0000074-98-6 | PROPANE                                   | 10% - 20%   | SARA312,VOC,TSCA,ACGIH,OSHA         |
| 0005392-40-5 | CITRAL                                    | 0.1% - 1%   | SARA312,TSCA,ACGIH                  |
| 0008008-56-8 | Oils, lemon                               | 0.1% - 1%   | SARA312,TSCA                        |
| 0068647-72-3 | Terpenes and Terpenoids, sweet orange-oil | 0.1% - 1%   | SARA312,TSCA                        |

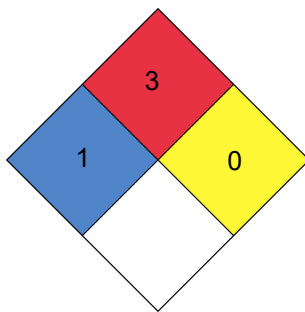
## Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

## HMIS

|                     |     |
|---------------------|-----|
| Health              | / 1 |
| FLAMMABILITY        | 3   |
| Physical Hazard     | 0   |
| Personal Protection | B   |

## NFPA



(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

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