CONTACT : LEONID CHEMICALS
Leonid Chemicals Pvt Ltd
62/A-2 1st Stage,Yeshwanthpur Industrial Suburb
Ashokpuram School Road
Bangalore-560 022, Karnataka, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name TURCO LIQUID SPRAYEZE NP-LT
Manufacturer Information
LEONID CHEMICALS
62/A-2 2nd Stage, Industrial Suburb
Yeshwanthpur, Bangalore -22, INDIA
Ph- +91-80-23378354

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS #
Component
Percent
1300-72-7
Sodium xylene sulfonate
10-30
Proprietary
Modified polyethoxylated alcohol
1-10
497-19-8
Sodium carbonate
1-10
1312-76-1
Potassium silicate
1-10
526-95-4
Gluconic acid
<1
1310-58-3
Potassium hydroxide
<1
Component Related Regulatory Information
This product may be regulated, have exposure limits or other information identified as the following: Nuisance particulates.

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:
WARNING! May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.
Potential Health Effects:
Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on its composition, it is anticipated to be severely irritating to the eyes and skin. Prolonged or repeated contact may remove oils from and dry the skin causing irritation, redness and rash. This material is anticipated to be severely irritating to the respiratory tract with coughing, shortness of breath, nasal septum perforations and increased evidence of lung function impairment. Medical conditions which may be aggravated by exposure to this material include lung disease or limited respiratory capacity.

SECTION 4 - FIRST AID MEASURES

Eye Contact:
In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Skin Contact:
For skin contact, flush with large amounts of water. If irritation persists, get medical attention.
Ingestion:
If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Inhalation:
If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: None
Method Used:
Flammability Classification:
Upper Flammable Limit (UFL):
NA
Lower Flammable Limit (LFL):
NA
Fire & Explosion Hazards:
This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.
Extinguishing Media:
Use methods for the surrounding fire.
Fire-Fighting Instructions:
Use water spray to cool containers exposed to fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Clean-Up Procedures:
Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of collected material according to regulation.
Spill or Leak
Contain spill. Stop leak at source if this can be done safely. Ventilate area. Nonessential personnel should leave the area until cleanup is completed. Pump liquid into DOT-approved drums for disposal. Absorb remaining liquid onto inert absorbent and place in DOT approved drums for disposal. Wash area with water. Keep concentrate and wash water from entering sewers or waterways.

SECTION 7 - HANDLING AND STORAGE

Handling Procedures:
Do not breathe mist. Do not breathe vapor. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Keep container tightly closed. Empty container may contain hazardous residues. Do not enter confined spaces unless adequately ventilated.

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Storage Procedures:
Store in a cool, dry place. Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits
Sodium carbonate (497-19-8)
ACGIH: 10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA (respirable fraction) (These values are for particulate matter containing no asbestos and <1% crystalline silica) (related to Particulates not otherwise classified (PNOC))
OSHA: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (related to Particulates not otherwise regulated)
Potassium hydroxide (1310-58-3)
ACGIH: 2 mg/m3 Ceiling
NIOSH: 2 mg/m3 Ceiling
Engineering Controls:
Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.
PERSONAL PROTECTIVE EQUIPMENT
As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.
Eyes/Face Protective Equipment:
Wear chemical goggles; face shield (if splashing is possible).
Skin Protection:
Use impervious gloves. Use of impervious apron and boots are recommended.
Respiratory Protection:
If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Physical State: Liquid
Appearance: Clear yellow liquid
Odor:
Vapor Pressure: 20 MM Hg @ 20 deg C
Vapor Density: <1
Boiling Point: > 200 F
Melting Point: NA
Specific Gravity: 1.09
pH: > 12.0
Viscosity:
VOC: 12g/L
Solubility Water: Complete
Percent Volatile: 77 Vol%

SECTION 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability:
This material is chemically stable under normal and anticipated storage and handling conditions.
Incompatibility:
Avoid contact with strong acids and oxidizers.
Decomposition Products:
Oxides of carbon, sulfur compounds.

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Hazardous Polymerization:
Hazardous polymerization is not known to occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:
A: General Product Information
No information available for the product.
B: Component Analysis - LD50/LC50
Sodium carbonate (497-19-8)
Inhalation LC50 Rat : 2300 mg/m3/2H
Inhalation LC50 Mouse : 1200 mg/m3/2H
Oral LD50 Rat : 4090 mg/kg
Oral LD50 Mouse : 6600 mg/kg
Potassium hydroxide (1310-58-3)
Oral LD50 Rat : 273 mg/kg
Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.
Chronic Toxicity
No information available for the product.
Epidemiology:
No information available for the product.
Neurotoxicity:
No information available for the product.
Mutagenicity:
No information available for the product.
Teratogenicity:
No information available for the product.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
A: General Product Information
No information available for the product.
B: Component Analysis - Ecotoxicity - Aquatic Toxicity
Sodium carbonate (497-19-8)
Test & Species
Conditions
LC50 (96 hr) bluegill
320 mg/L
Static.
Potassium hydroxide (1310-58-3)
Test & Species
Conditions
LC50 (24 hr) mosquito fish
80.0 mg/L.
Environmental Fate:
No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

US EPA Waste Numbers & Descriptions:
A: General Product Information
Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations.

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Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

SECTION 15 - REGULATORY INFORMATION

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302
(40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Potassium hydroxide (1310-58-3)

CERCLA: final RQ = 1000 pounds (454 kg)

SARA 311/312: Acute: Y **Chronic:** N **Fire:** N **Pressure:** N **Reactive:** N

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	**CAS #**	**CA**	**FL**	**MA**	**MN**	**NJ**	**PA**
Potassium hydroxide	1310-58-3	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	**CAS #**	**TSCA**	**DSL**	**EINECS**

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Yes
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Yes
Potassium silicate
1312-76-1
Yes
Yes
Yes
Gluconic acid
526-95-4
Yes
Yes
Yes
Potassium hydroxide
1310-58-3
Yes
Yes
Yes
C: Component Analysis - WHMIS IDL
The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:
Component
CAS #
Minimum Concentration
Sodium carbonate
497-19-8
1%; English Item 1431; French
Item 392

SECTION 16 - OTHER INFORMATION

NFPA Ratings: Health: 2 **Fire:** 0 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS Ratings: Health: 2 **Fire:** 0 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard
Key/Legend
EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;
SARA = Superfund Amendments and Reauthorization Act
The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate

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