# SAFETY DATA SHEET

**Date Prepared :** 05/21/2015
**MSDS No :** Liqui-Clean

## ResistAll Liqui-Clean Engine Degreaser

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ResistAll Liqui-Clean Engine Degreaser
**GENERAL USE:** Automotive engine degreaser
**CHEMICAL FAMILY:** Mixture

**MANUFACTURER**
Cal-Tex Protective Coatings, Inc.
7455 Natural Bridge Caverns Rd.
Schertz, TX 78154-3210
**Customer Service:** 210-564-3200

**24 HR. EMERGENCY TELEPHONE NUMBERS**
INFOTRAC (US Transportation): 800-535-5053
Poison Control Center (Medical): 877-800-5553

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

**Health:**

Skin Corrosion, Category 1C

### GHS LABEL

Causes severe skin burns and eye damage

Corrosion

**SIGNAL WORD:** DANGER

### HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage.

### PRECAUTIONARY STATEMENT(S)

**Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
6458G8LP: Wash hands thoroughly after handling.
3893WSLU: Wear protective gloves/eye protection

**Response:**

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P363: Wash contaminated clothing before reuse.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310: Immediately call a POISON CENTER/doctor/...
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage:**

P405: Store locked up.

**Disposal:**

3912LZZT: Dispose of contents/container in accordance with local, state and federal regulations.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Clear liquid

**IMMEDIATE CONCERNS:** Corrosive. May be harmful or fatal if swollowed or inhaled. Causes severe skin and eye burns. Vapours are extremely irritating to eyes and respiratory tract.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Extremely irritating to the eyes and may cause severe damage including blindness.

**SKIN:** Contact causes severe skin irritation and possible burns if not promptly removed. Prolonged, confined or repeated exposure may caues skin irritation and may lead to dermatitis, that may not be immediately visible.

**INGESTION:** Causes severe burning and pain to the mouth, esophagus, stomach, and other tissues with which contact is made. May cause vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.

**INHALATION:** Mist or vapours may cause severe irritation of the nose, throat and respiratory tract. Repeated and/or prolonged exposures may cause productive cough, running nose, bronchopneumonia, pulmonary oedema (fluid build-up in lungs), and reduction of pulmonary function. Can cause injury to entire respiratory tract. Severe exposure may cause lung damage.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS |
|---|---|---|
| Dipropylene Glycol Methyl Ether | 1 - 2 | 34590-94-8 |
| 2-propanol | 1 - 2 | 67-63-0 |
| Sodium Tripolyphosphate | 5 - 10 | 7758-29-4 |
| Potassium Hydroxide | 1 - 2 | 1310-58-3 |

## 4. FIRST AID MEASURES

**EYES:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical professional if blurry vision or irritation developes and persists.

**SKIN:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash or discard clothing and shoes before reuse.

**INGESTION:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**INHALATION:** Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen Note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.

**NOTES TO PHYSICIAN:** Severe and sometimes delayed (up to 72 hours) local and systemic reactions can occur.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Non-flammable

**GENERAL HAZARD:** Product is not flammable or combustible under normal conditions.

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, nitrogen and sulfur.

**EXPLOSION HAZARDS:** Non-explosive

**FIRE FIGHTING PROCEDURES:** Avoid flow of material into drains. Use a water spray to cool fire-exposed containers. Do not enter any enclosed or confined space without proper PPE.

**FIRE FIGHTING EQUIPMENT:** Firefighters should wear self contained breathing apparatus as some toxic decomposition products may result from fire conditions.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Soak up with sawdust, sand, oil dry, paper towel or other absorbent material

**LARGE SPILL:** Confine spill by diking or impoundment. Clean up spill by absorbing with an inert material such as sand, soil, sawdust, oil dry or vermiculite. Sweep up absorbant and dispose according to regulatory requirements. Ventilate area to avoid breathing vapors or dust.

**ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Keep spills and cleaning runoffs out of municipal sewers and open bodies of water if safe to do so.

**LAND SPILL:** Prevent further leakage or spillage if safe to do so.

**AIR SPILL:** Ventilate enclosed spaces.

**GENERAL PROCEDURES:** Neutralize the residue with a dilute solution of acetic acid.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Acoid breathing vapors, mists or spray.

**HANDLING:** Use care in handling. Avoid contact with eyes, skin, and clothing. Avoid release to the environment. Follow label directions.

**STORAGE:** Keep container in well ventilated area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES**

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | | |
|---|---|---|---|---|---|
| | | EXPOSURE LIMITS | | | |
| | | OSHA PEL | | ACGIH TLV | |
| **Chemical Name** | | **ppm** | **mg/m³** | **ppm** | **mg/m³** |
| Dipropylene Glycol Methyl Ether | **TWA** | 100 | 600 | 100 | |
| | **STEL** | 150 | 900 | 150 | |
| 2-propanol | **TWA** | 400 | 980 | 400 | 983 |
| | **STEL** | 500 | 1225 | 500 | 1230 |
| Sodium Tripolyphosphate | **TWA** | | 15 | | 10 |
| Potassium Hydroxide | **STEL** | | 2 | | 2 |

**ENGINEERING CONTROLS:** Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Wear safety glasses with side shields (or goggles).

**SKIN:** Suitable chemical protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Nitrile gloves are recommended.

**RESPIRATORY:** No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

**PROTECTIVE CLOTHING:** Wear suitable protective clothing. Wear appropriate chemical resistant clothing if applicable.

**WORK HYGIENIC PRACTICES:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Mild detergent odor

**APPEARANCE:** Clear red liquid

**pH:** 12.5

**FLASH POINT AND METHOD:** > 104°C (220°F)

**FLAMMABLE LIMITS:** No data available to No data available

**AUTOIGNITION TEMPERATURE:** Not Established

**VAPOR PRESSURE:** No data available.

**VAPOR DENSITY:** No data available.

**BOILING POINT:** Not Available

**FREEZING POINT:** (32°F)

**MELTING POINT:** Not Available

**THERMAL DECOMPOSITION:** No data available.

**SOLUBILITY IN WATER:** Completely soluble

**EVAPORATION RATE:** No data available.

**SPECIFIC GRAVITY:** 1.043

**VISCOSITY:** Similar to water

**(VOC):** 4.400 %

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under normal storage and handling conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** No hazardous reactions with proper storage and handling.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Irritating and/or toxic gases may be emitted upon the products decomposition.

**INCOMPATIBLE MATERIALS:** Oxidizers, metal chlorides and acids.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE**

| Chemical Name | ORAL $LD_{50}$ (rat) | DERMAL $LD_{50}$ (rabbit) | INHALATION $LC_{50}$ (rat) |
|---|---|---|---|
| Dipropylene Glycol Methyl Ether | > 5000 mg/kg (Rat) | 9510 mg/kg (Rabbit) | > 30000 mg/l (Rat) |
| 2-propanol | 5500 mg/kg (Rat) | > 12800 mg/kg (Rabbit) | > 10000 mg/l (Rat) |
| Sodium Tripolyphosphate | 5400 mg/kg (Rat) | > 7900 mg/kg (Rabbit) | |
| Potassium Hydroxide | 365 mg/kg (Rat) | 1260 mg/kg (Rabbit) | |

**EYE EFFECTS:** Eye Irritation

**SKIN EFFECTS:** May cause irritation, defatting or dermatitis.

**CARCINOGENICITY**

**Notes:** The ingredients of this product are not classed as carcinogenic by ACGIH, IARC, OSHA or NTP.

**REPRODUCTIVE EFFECTS:** This product is not expected to cause reproductive or developmental effects.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Do not allow to enter soil, waterways or waste water canal.

**AQUATIC TOXICITY (ACUTE):** May be harmful to aquatic life primarily associated with pH.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations. Send to a licensed/permited waste desposer, recycler, reclaimer or incinerator.

**EMPTY CONTAINER:** Empty containers should be taken to an apporved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**RCRA/EPA WASTE INFORMATION:** Wastes of this product must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

**RCRA HAZARD CLASS:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Corrosive Liquids, Basic, Inorganic, N.O.S. (Potassium Hydroxide)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** 3266

**PACKING GROUP:** II

**PLACARDS:** Corrosive

ResistAll Liqui-Clean Engine Degreaser

**LABEL:** Corrosive

## 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All components are listed or otherwise in compliance with notification requirements.

**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)**

**29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** Corrosive

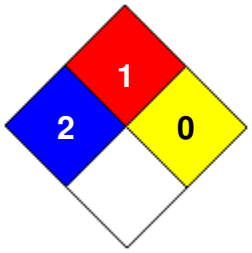
## 16. OTHER INFORMATION

**PREPARED BY:** Cal-Tex Compliance Office **Date Prepared:** 05/21/2015

**HMIS RATING**

| | |
|---|---|
| HEALTH | 2 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | B |

**NFPA CODES**

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