

World's Champion Engine Degreaser

MSDS

Champion Products, LLC

Product Data

Preparation Date: May 2009

Description

World's Champion Aerosol Engine Degreaser is a concentrated blend of d-Limonene, citrus components, and surfactant. It has a high concentration of d-Limonene, making it better for applications requiring more solvent cleaning power. This product is ideal for cleaning applications where a water rinse is required. World's Champion Aerosol Engine Degreaser has been formulated to be VOC compliant.

World's Champion Aerosol Engine Degreaser is formulated with the environment in mind. It is nonylphenol free (no NPE-surfactants), has no ozone depleting chemicals (ODCs), and no hazardous air pollutants (HAPs).

Uses & Applications

World's Champion Aerosol Engine Degreaser is a replacement for toxic chlorinated solvents, glycol ether, MEK, xylene, Freon, and CFCs. It works well as a parts cleaner and engine degreaser for automotive, aircraft, and aerospace industries.

Section 1: Manufacturer's Name and Contact Information

Product Name: World's Champion Engine Degreaser

Product Code: 1016

Synonyms:

Issue Date: April 2009

Manufacturer: Champion Products, LLC

Address: 3553 Landco Dr. Suite B Bakersfield, CA 93308

Emergency Contact: ChemTrec 1-800-466-7124

Section 2: Hazardous Ingredients/Identity Information

| Component | CAS Reg. Number | wt% |
|---------------------------|-----------------|--------|
| Citrus Terpenes | 94266-47-4 | 30-40% |
| Acetone | 67-64-1 | 30-40% |
| 1,1,1,2-Tetrafluoroethane | 811-97-2 | 20-30% |
| Nonionic Surfactant | 68131-39-5 | 1-5% |

Section 3: Physical/Chemical Characteristics

| | |
|--------------------------|----------------|
| Boiling Point: | 133°F (56°C) |
| Vapor Pressure: | 24 kPa (@20°C) |
| Vapor Density: | 2 (Air = 1) |
| Specific Gravity: | 0.894 |
| Melting Point: | -140°F (-95°C) |

Solubility in Water: Forms Emulsion
Physical Appearance: Colorless to light yellow liquid
Odor: Citrus

Section 4: Fire and Explosion Hazard Data

Flash Point (and method used to determine it): <20°F (-7°C) PMCC

Flammability Limits: LOWER: 2.6% UPPER: 12.8%

Extinguishing Media

Suitable Extinguishing Media: Powder, Water Spray, Foam, Carbon Dioxide

Unsuitable Extinguishing Media: None

Special Firefighting Procedures: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Unusual Fire and Explosion Hazards: None

Section 5: Reactivity Data

Stability: Stable

Conditions to Avoid: Sparks, High Heat

Incompatibility (materials to avoid): Oxidizers

Hazardous Decomposition or Byproducts: Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon and smoke may be produced.

Hazardous Polymerization (and conditions to avoid): None

Section 6: Health Hazard Data

Routes of Entry (inhalation, skin, ingestion): Skin contact, eye contact, inhalation, ingestion

Eye: May cause moderate to severe eye irritation

Skin: May cause slight redness. Prolonged or repeated exposure may cause drying of the skin.

Inhalation: May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonia.

Ingestion: Not likely to be toxic, but may cause stomach distress, nausea, or vomiting.

Health Hazards

Acute: Citrus terpenes have been shown to have low oral toxicity (LD50>5 g/kg) and low dermal toxicity (LD50>5 g/kg) when tested on rabbits. Citrus terpenes also showed low toxicity by inhalation (RD50>1 g/kg) when tested on mice. The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively. Inhalation may cause irritation to the nose, throat, and respiratory tract.

For Acetone the LD50 values are estimated on the basis of a 4-hour exposure.

Acute oral toxicity (LD50): 3000 mg/kg [Mouse]

Acute toxicity of the vapor (LD50): 4400 mg/m³ [Mouse]

Chronic: This product is not classified as a carcinogen by OSHA, IARC, ACGIH, or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain reproductive or developmental toxins. Prolonged or repeated exposure can cause drying or

dermatitis of the skin. Improper storage and handling may lead to the formation of a possible skin sensitizer.

Signs and Symptoms of Exposure: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.

Medical Conditions Generally Aggravated by Exposure: May irritate the skin of people with pre-existing skin conditions.

Emergency and First Aid Procedures

- Eye Contact:** Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.
- Skin Contact** Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.
- Inhalation** If symptoms of overexposure are experienced, remove to fresh air. If symptoms persist, seek medical attention.
- Ingestion** Seek medical attention immediately. DO NOT induce vomiting. Rinse mouth with water. DO NOT administer anything by mouth to an unconscious person. DO NOT leave victim unattended.
- General** As with any chemical, user should thoroughly wash hands with soap and water after handling this material.

Section 7: Precautions for Safe Handling and Use

Handling: Keep away from heat, sparks, and flame. Open container slowly to release pressure caused by temperature variations. Do not allow this material to come into contact with eyes. Avoid prolonged contact with skin. Use in well ventilated areas. Do not breathe vapors. As with any chemical, users should thoroughly wash hands with soap and water after handling this material.

Storage

Product may be stored in phenolic-lined steel containers or fluorinated plastic containers. Store in well ventilated area with proper sprinkler/fire deterrent system. Storage temperature should not exceed the flash point for extended periods of time. Keep container closed when not in use.

Personal Precautions: Use personal protection recommended in Section 8. Product is slippery when spilled. Isolate the hazard area. Deny entry to unnecessary personnel.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways

Methods for Containment: Dike spill area and cap leaking containers as necessary to prevent further spreading of spilled material. Absorb spilled liquid with suitable material such as dirt or sand.

Methods for Clean Up: Eliminate all ignition sources. Use equipment rated for use around combustible materials. Oil soaked rags may spontaneously combust; place in appropriate disposal container.

Section 8: Control Measures

Exposure Guidelines

Ingredient
 d-Limonene

Acetone

Diethanolamine

1,1,1,2-Tetrafluoroethane

Exposure Limits

8h TWA=30ppm **(AIHA Standard)**

500 ppm TWA; 750 ppm STEL **(ACGIH)**
 250 ppm TWA; 590 mg/m³ TWA
 2500 ppm IDLH (10% LEL) **(NIOSH)**
 1000 ppm TWA; 2400 mg/m³ TWA
(OSHA-Final PELs)

8h TWA=0.46 ppm **(AIHA Standard)**

8h TWA=1000 ppm **(AIHA Standard)**

Engineering Controls: Provide ventilation. Keep away from sparks and flames.

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Nitrile gloves are recommended. Boots, apron, or bodysuit should be worn as necessary.

Respiratory Protection: Not normally required. If adequate ventilation is unavailable, use NIOSH approved air-purifying respirator with organic vapor cartridge or canister.

General Hygiene Considerations: Wash hands thoroughly after handling. Have eyewash and emergency shower facilities immediately available. Launder contaminated clothing before reuse.

Section 9: Transport Information

US DOT Shipping Classification

Proper Shipping Name: TERPENE HYDROCARBONS, N.O.S.

Hazard Class: 3

Identification No.: UN2319

Packing Group: III

Label/Placard: exception §173.150(f) applies

TDG Status: Hazardous

IMO Status: Hazardous

IATA Status: Hazardous

The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment, or other regulatory descriptions.

Section 10: Regulatory Information

Global Inventories

The components of this product are included in the following inventories:

USA (TSCA)

Canada (DSL)

Europe (EINECS/ELINCS/Polymer/NLP)

Australia (AICS)

Korea (KECL)

Philippines (PICCS)

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains a chemical currently listed as a carcinogen or reproductive toxin under California Proposition 65 at levels which would be subject to the proposition.

NFPA 704: National Fire Protection Association

Health – 1 Fire – 3 Reactivity - 0

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