



**ZEP Manufacturing Company of Canada**  
 Acuity Specialty Products Group, Inc.  
 11627 - 178th Street  
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## Material Safety Data Sheet

and Safe Handling and Disposal Information

### SECTION I - PRODUCT INFORMATION

**Issue Date** 24/07/03  
**Supersedes** 24/01/01  
**Product Name** **ORANGE GEL AEROSOL  
 DEGREASER**  
**Product No.** **0001**  
 Aerosol Industrial Degreaser

**For MSDS Information:**  
 Zep Manufacturing Company of Canada  
**Technical Services: (780) 453-8100**

**For Medical Emergency (24 Hour Service):**  
**CANUTEC: (613) 996-6666 Call Collect**

**For a Transportation Emergency (24 Hour Service):**  
**CANUTEC: (613) 996-6666 Call Collect**

Printing date: 20/07/04

### SECTION II - HAZARDOUS INGREDIENTS

\*\* D-LIMONENE \*\* orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-; CAS# 5989-27-5 TLV: Not Available; % IN PROD: 60-100

LD50: >5000 mg/kg	SPECIES: RAT	ROUTE: ORL
LC50: Not Available	SPECIES: Not Available	ROUTE: Not Available

\*\* BLEND OF [ISOBUTANE; CAS# 75-28-5; RTECS# TZ4300000] & [PROPANE; CAS# 74-98-6; RTECS# TX2775000] & [n-BUTANE; CAS# 106-97-8; RTECS# EJ4200000] \*\* OSHA PEL-1000 ppm TLV: 800; % IN PROD: 10-30

LD50: Not Available	SPECIES: Not Available	ROUTE: Not Available
LC50: Not Available	SPECIES: Not Available	ROUTE: Not Available

\*\* NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL \*\* npe; poly(oxy-1,2-ethanediy), alpha-(nonylphenyl)-omega- hydroxy; CAS# 9016-45-9; RTECS# MD0905000; OSHA PEL\_ N/D TLV: Not Available; % IN PROD: 10-30

LD50: >5000 mg/kg	SPECIES: RAT	ROUTE: ORL
LC50: Not Available	SPECIES: Not Available	ROUTE: Not Available

THE WHMIS CLASSIFICATION FOR THIS PRODUCT IS: A B5 D2B

### SECTION III - TOXICOLOGICAL PROPERTIES

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use so long as prescribed safety precautions are practiced.

**EFFECTS OF ACUTE EXPOSURE:**

This product can be an eye irritant. Inflammation of eye tissue is characterized by redness, watering, and/or itching. One of the ingredients in this product has caused sensitization reactions in a small percentage of the general population.

**EFFECTS OF CHRONIC EXPOSURE:**

Contact, especially if prolonged or repeated, may cause redness, itching, or irritation of the skin. None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

PRIMARY ROUTES OF ENTRY: Eyes, Skin, Inh.

### SECTION IV - FIRST AID MEASURES

**SKIN:** Wash contaminated skin thoroughly with soap or a mild detergent. Apply a skin cream with lanolin. Get medical attention if irritation persists.

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once.

**INHALE:** If symptoms occur, move affected person to fresh air. If symptoms persist, get medical attention promptly.

**INGEST:** If this product is swallowed, do not induce vomiting. If individual is alert, give plenty of water to drink. Get medical attention at once.

### SECTION V - PHYSICAL DATA

BOILING POINT (C) : 76.7	SPECIFIC GRAVITY : 0.861
FREEZING POINT (C) : Not Available	VOC CONTENT (CONCENTRATE) : 90.5%
VAPOR PRESSURE(mmHg) : Not Available	EVAPORATION RATE (Not Available = 1) : Not Available
VAPOR DENSITY(AIR-1) : Not Available	pH(CONCENTRATE) : Not Available
SOLUBILITY IN WATER : EMULSIFIES	pH(USE DILUTION OF Not Available) : Not Available
APPEARANCE AND ODOR : A CLEAR, AMBER LIQUID WITH AN ORANGE FRAGRANCE.	

### SECTION VI - PREVENTATIVE MEASURES

**SPECIAL PROTECTION INFORMATION:**

**PROTECTIVE CLOTHING:** Wear nitrile gloves or use gloves with demonstrated resistance to the ingredients in this product.

**EYE PROTECTION:** Wear tight-fitting splash-proof safety glasses especially if contact lenses are worn.

**RESPIRATORY PROTECTION:** Keep face away from spray mist and do not breathe vapors.

**VENTILATION:** Ventilation should be equal to outdoors. Use exhaust fans and/or exhaust hood in enclosed spaces.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Spills are not expected due to the nature of the product. Unused product is non-hazardous. Unusable or contaminated product should be collected and stored in a suitable waste container.

**WASTE DISPOSAL METHOD:**

Product is consumed in use. Do not crush, puncture, or incinerate spent containers. Large numbers of aerosol containers may require handling as a hazardous waste. Check local, provincial, and federal regulations for proper disposal methods in your area.

**PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:**

Flammable! Store and use away from heat, sparks, open flame, and any source of ignition. Do not store at temperatures above 120F (39C) or in direct sunlight. Do not puncture or incinerate container. Keep product away from skin and eyes. Do not breathe spray mists or vapors. Clothing or shoes which become contaminated with substance should be removed promptly and not reworn until thoroughly cleaned. Keep out of the reach of children

**TRANSPORTATION DATA**

TDG I.D. NUMBER: Not Available

TDG PROPER SHIPPING NAME: CONSUMER COMMODITY,

TDG HAZARD CLASS: ORM-D

TDG PACKAGING GROUP: Not Available

TDG LABEL/PLACARD:ORM-D

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**SECTION VII - FIRE AND EXPLOSION HAZARDS**

FLASH POINT(C) (METHOD USED): Not Available CSMA

FLAMMABLE LIMITS : LOWER: Not Available UPPER: Not Available

CONDITIONS OF FLAMMABILITY: Heat, open flame, spark, and oxidizing agents.

AUTOIGNITION TEMPERATURE (C) : Not Available

MEANS OF EXTINCTION: Carbon dioxide, dry chemical, water fog, foam.

FIRE FIGHTING: Wear self-contained positive pres. breathing apparatus.

FIRE HAZARD: Direct water onto intact containers to prevent bursting.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

EXPLOSION DATA: Not Available

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**SECTION VIII - REACTIVITY DATA**

STABILITY: Stable

INCOMPATIBILITY(AVOID): Heat, flame, spark, strong acids and/or oxidizers.

REACTIVITY: Will not occur.

HAZARDOUS DECOMPOSITION: Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

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**SECTION IX - PREPARATION INFORMATION**

Prepared By: Zep Technical Services, Zep Manufacturing Company of Canada, Edmonton, Alberta

For MSDS Information, telephone: (780) 453-8100

Date of Preparation : 24/07/03