

Safety Data Sheet



Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-793-7776

Section 1. Chemical Product and Company Identification

Product name DEO-3
Product use Deodorants.
Product code 1779
Date of issue 02/14/12 **Supersedes** 11/11/10

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-793-7776

For Medical Emergency
(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

WARNING!

CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED.



*Hazard Determination System (HDS): Health, Flammability, Reactivity

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact. Inhalation.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin May cause skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion May be harmful if swallowed. May cause mild gastric irritation, abdominal spasms, nausea and faintness.

Chronic effects

Contains material which may cause damage to the following organs: kidneys, the nervous system, liver, mucous membranes, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, nose/sinuses, throat.

Carcinogenicity No known significant effects or critical hazards.

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

	<u>CAS number</u>	<u>% by Weight</u>
2-methylpentane-2,4-diol	107-41-5	1 - 10
Nonylphenol, ethoxylated	9016-45-9	1 - 10
proprietary Fragrance.	Proprietary	1 - 5

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. If irritation persists, get medical attention.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



Flash Point Closed cup: >93.3°C (>199.9°F) [Tagliabue.]

Flammable Limits Not available.

Flammability Non-combustible.

Fire hazard No known significant effects or critical hazards.

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Do not ingest. Wash thoroughly after handling. Do not reuse container.

Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Protect from freezing. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

2-methylpentane-2,4-diol

Exposure limits

ACGIH TLV (United States, 2/2010).

C: 25 ppm

C: 121 mg/m³

OSHA PEL 1989 (United States, 3/1989).

CEIL: 25 ppm

CEIL: 125 mg/m³

NIOSH REL (United States, 6/2009).

CEIL: 25 ppm

CEIL: 125 mg/m³

Personal Protective Equipment (PPE)

Eyes Safety glasses.

Body Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

Respiratory Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State Liquid.

Color Clear. Blue.

pH 7.5 to 8.5

Odor Fruity. Sweetish. [Strong]

Boiling Point 100°C (212°F)

Vapor Pressure Not available.

Specific Gravity 1.01

Vapor Density Not available.

Solubility Easily soluble in the following materials: cold water and hot water.

Evaporation Rate 1 (Water = 1)

VOC (Consumer) 27.9 g/L 0.23 lbs.gal 2.76%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO₂)

Section 11. Toxicological Information**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-methylpentane-2,4-diol	LD50 Oral	Rat	3700 mg/kg	-
Nonylphenol, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
2-methylpentane-2,4-diol	-	Acute EC50 2800000 ug/L Fresh water	Crustaceans - Water flea - Ceriodaphnia reticulata - Larvae - <24 hours	48 hours
	-	Acute EC50 3200000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Larvae - <24 hours	48 hours
	-	Acute LC50 8000000 ug/L Marine water	Fish - Bleak - Alburnus alburnus - 8 cm	96 hours
	-	Acute EC50 12 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
Nonylphenol, ethoxylated	-	Acute LC50 1 to 2 ug/L Fresh water	Crustaceans - Fairy shrimp - Thamnocephalus platyurus - Nauplii - 24 hours	48 hours
	-	Acute LC50 4800 ug/L Fresh water	Daphnia - Water flea - Daphnia pulex - Larvae - <=24 hours	48 hours
	-	Acute LC50 1300 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 1 g	96 hours
	-	Chronic NOEC 35 ug/L Fresh water	Fish - Medaka, high-eyes - Oryzias latipes - Fry	100 days

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Classification: Non-hazardous waste

Origin: RCRA waste.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	Not a DOT controlled material (United States).			
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 311: pentyl acetate

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations**California Prop 65**

No products were found.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.
Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.*
Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.