Material Safety Data Sheet

O.J.D.

Continental Research Corp.
P.O. Box 15204
St. Louis, MO. 63110
Phone Number: 800-325-4869

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CHEM-TEL: 800-225-3924

SECTION I - IDENTIFICATION

PRODUCT NAME: O.J.D.
PRODUCT USE: Degreaser

SECTION II – COMPOSITION/HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV
1, 8-p-Menthadiene	5989-27-5	Not Established	Not Established
Propane/n-Butane	68476-86-8	1000 ppm	1000 ppm
Diethylene Glycol Monobutyl Ether	112-34-5	Not Established	25 ppm
Isoparaffinic Hydrocarbon	64742-47-8	5 mg/m3	5 mg/m3
Soy Methyl Ester	67784-80-9		Not Established
Alcohol Ethoxylate (C9-C11)	68439-46-3	Not Established	Not Established

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Irritant to skin, eyes, respiratory tract.
ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin
EYES: May cause irritation, redness.
INGESTION: May cause gastrointestinal irritation, nausea, diarrhea, vomiting.
INHALATION: Causes mild irritation to the respiratory tract.
SKIN: May cause irritation, localized defatting.
MEDICAL CONDITION AGGRAVATED: None known
CHRONIC HEALTH HAZARDS: May be toxic to kidneys and liver.
CARCINOGENICITY:
OSHA: No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** N/A

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention if irritation develops.
INGESTION: Do not induce vomitting. Seek medical attention.
INHALATION: Move to fresh air.
SKIN: Wash thoroughly with soap and water.
NOTE TO PHYSICIAN:

SECTION V – FIRE-FIGHTING MEASURES

FLASH POINT: Not Tested
FLAMMABLE LIMITS IN AIR, (% BY VOLUME) UPPER: Not Tested **LOWER:** Not Tested
EXTINGUISHING MEDIA: Dry chemical, foam, or Carbon Dioxide (CO_2).
SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA in fire situations. Use water spray to cool containers exposed to fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 120°F may cause bursting.
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Absorb spill with non-combustible material such as vermiculite, sand or earth.
WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Do not puncture container, wrap container and place in trash collection.
RCRA STATUS: Waste likely considered Non-hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Store in cool, dry, ventilated area. Exposure to temperatures above 120°F may cause bursting.
OTHER PRECAUTIONS: Vapors may collect in low lying areas. Keep out of the reach of children. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Use only in well ventilated areas. Local ventilation/exhaust preferred.
RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection if exposure limits are exceeded.
PROTECTIVE CLOTHING: Safety glasses and chemical resistant gloves are recommended.
ADDITIONAL MEASURES: Wash hands thoroughly after use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Tan Gel
PHYSICAL STATE: Liquid
FREEZING POINT: Not Tested
VAPOR DENSITY (AIR=1): > 1 @ 77°F (25°C)
SPECIFIC GRAVITY (H2O=1): 0.85
SOLUBILITY IN WATER: Slight
VOLATILE ORGANIC COMPOUNDS (VOC): 9%
ODOR: Citrus scent
BOILING POINT: > 212°F (100°C)
VAPOR PRESSURE (mm Hg): Not Test
EVAPORATION RATE: Slow
pH: N/A
VOLATILITY INCLUDING WATER (%): > 90%

SECTION X – STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY: Stable
INCOMPATIBILITY: Strong oxidizing agents, strong reducing agents, acids.
HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Excessive heat.

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Diethylene Glycol n-Butyl Ether (DB) (112-34-5) LD_{50} (Oral, Rat): 3950 - 9740 mg/kg, (Mouse) 12,400 mg/kg, (Guinea Pig) 3000 - 4970 mg/kg, (Rabbit) 4450 mg/kg; LD_{50} (Skin, Rabbit): 10,300 mg/kg, (Guinea Pig) 31,700 mg/kg, (Mouse & Rat) 5940 mg/kg; LC_{50} (Inhalation, Rat): 960 ppm **1,8-p-Menthadiene** (5989-27-5): Oral LD_{50}: Acute: 4400 mg/kg [Rat]. 5600 mg/kg [Mouse]. Dermal LD_{50}: Acute: >5000 mg/kg [Rabbit]. **Distillates, Petroleum, Hydrotreated, Light** (64742-47-8) Oral LD_{50} (Rat): > 15000 mg/kg, Dermal LD_{50} (Rabbit): > 3160 mg/kg
Alcohol Ethoxylate (C_9-C_{11}) (68439-46-3) LD_{50} (Dermal, Rabbit) >5 g/kg; LD_{50} (Oral, Rat) 1.4 g/kg

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Diethylene Glycol n-Butyl Ether (DB) (112-34-5) Toxicity to fish LC_{50} - Lepomis macrochirus - 1,300 mg/l - 96 h; LC_{50} - Leuciscus idus (Golden orfe) - > 1,000 mg/l - 48 h; Toxicity to daphnia and other aquatic invertebrates, EC_{50} - Daphnia magna (Water flea) - > 100 mg/l - 48 h; Toxicity to algae IC_{50} Desmodesmus subspicatus (green algae) > 100 mg/l - 24 h; Toxicity to bacteria LC_{50} - Pseudomonas putida - 1,170 mg/l - 16 h. **Distillates, Petroluem, Hydrotreated, Lights** (64742-47-8) Not expected to be harmful or demonstrate chronic toxicity toward aquatic organisms. Biodegradation: Expected to

be readily biodegradable. Hydrolysis: Transformation due to hydrolysis not expected to be significant. Photolysis: Transformation due to photolysis not expected to be significant. Atmospheric Oxidation: Expected to degrade rapidly in air.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Do not puncture container, wrap container and place in trash collection.

RCRA STATUS: Waste likely considered Non-hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Consumer commodity ORM-D
HAZARD CLASS/DIVISION: 2.2 **UN/NA NUMBER:** UN 1950
PACKAGING GROUP: None

AIR SHIPMENT
PROPER SHIPPING NAME: Aerosols, Ltd. Qty. Class 2
HAZARD CLASS/DIVISION: 2.1 **UN/NA NUMBER:** UN 1950
PACKAGING GROUP: None

SHIPPING BY WATER:
VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: Aerosols, Ltd. Qty. Class 2
HAZARD CLASS/DIVISION: 2.1 **UN/NA NUMBER:** UN 1950
PACKAGING GROUP: None **NOTE:**

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Diethylene Glycol n-Butyl Ether (DB) (112-34-5)

SARA 311/312 HAZARD CATEGORIES: None

SARA 313 REPORTABLE INGREDIENTS: Diethylene Glycol n-Butyl Ether (DB) (112-34-5)

CLEAN WATER ACT: None

STATE REGULATIONS: California Proposition 65: None **Distillates, Petroleum, Hydrotreated, Light** (64742-47-8) New Jersey RTK, Pennsylvania RTK, Rhode Island RTK **Diethylene Glycol n-Butyl Ether (DB)** (112-34-5) RTK - PA, NJ

INTERNATIONAL REGULATIONS: Glycol Ether DB - 112-34-5: European Union - EINECS, Australia - AICS, Japan - ENCS, Korean - ECL, (WHMIS) Canada

NFPA HEALTH: 2 **HMIS HEALTH:** 2
NFPA FLAMMABILITY: 2 **HMIS FLAMMABILITY:** 2
NFPA REACTIVITY: 0 **HMIS REACTIVITY:** 0
NFPA OTHER: N/A **HMIS PROTECTION:** A

SECTION XVI - ADDTIONAL INFORMATION

PREPARATION BY: Tec Service

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