



MATERIAL SAFETY DATA SHEET



ADL™ OS Low Odor RTU

™ Trademark of the ORANGE-SOL Group of Companies, Ltd.

Section 1

Product & Company Identifications

Product Name: ADL™ OS Low Odor RTU

Product Use: Removal of heavy build up of oil sands, bitumen, crude oil, tar, grease, asphalt.

Manufacturer: ORANGE-SOL Blending & Packaging, Inc.

1400 N. Fiesta Blvd., Bldg. 100

Gilbert, AZ 85233-1023

For Information & Emergencies: (480) 497-8822 (7 am-5pm, Mon-Fri MST) www.orange-sol.com

Preparation Date: 7 Feb 2012

Revision Date: 23 Jul 2013

MSDS #: 50681-290

Section 2

Information on Ingredients

Product Mixture: No hazardous ingredients as per OSHA, 29CFR 1910.1200.

Hazardous Ingredients: This product is Non WHMIS regulated.

Canadian TDG: Contains no hazardous ingredients.

Components: This section is proprietary.

Section 3

Hazardous Identification

Emergency Overview: Avoid inhalation of mist and contact with eyes.

Primary Routes of Contact: Ingestion, inhalation, and absorption.

Physical Hazard: None established.

Health Hazard

Eye: May cause irritation.

Skin: Repeated or prolonged exposure may cause dermatitis in sensitive individuals.

Ingestion: May cause gastric disturbances such as diarrhea.

Vapor Inhalation: Avoid mists, which may irritate mucous membranes.

Carcinogenicity Listings: **NTP:** None. **IARC:** None.
 OSHA: None. **ACGIH:** None.

Signs and Symptoms of Overexposure: Red, dry skin at point of contact.

Medical Conditions Aggravated by Exposure: Dermatitis may become aggravated by sensitive individuals.

Section 4 **First Aid Procedures**

Eye: Remove contact lenses, flush with water for at least 15 minutes while lifting eyelids. If irritation develops and persists, contact a physician.

Skin: Remove affected clothing. Wash skin thoroughly with soap and water. If irritation develops and persists, contact a physician.

Ingestion: If swallowed, do not induce vomiting. May cause chemical pneumonia if aspirated into lungs.

Inhalation: Move to fresh air. If irritation develops and persists, contact a physician.

Section 5 **Fire & Explosion Hazard**

Flash Point and Method: None. PMCC, ASTM D-93

Explosion Data: **Sensitivity to impact:** None. **Sensitivity to static charge:** None.

Combustion Products: As with any organic material, combustion will produce carbon dioxide an/or carbon monoxide.

Extinguishing Media: Water fog, carbon dioxide, dry chemical, foam.

Unusual Fire and Explosion Hazard: None.

Special Firefighting Precautions: Do not use streams of water; may spread burning liquid.

Firefighting Equipment: Use self-contained breathing apparatus in any enclosed area.

Section 6 **Accidental Release Measures**

Small Spills: Absorb with suitable material. Dispose in an appropriate waste container.

Large Spills: Dike with soil, and or other suitable materials avoiding the use of sawdust. Recover usable product, rinse area clean.

Personal Precautions: No special requirements.

Environmental Precautions: No special requirements known.

Section 7 **Handling & Storage**

Safe Handling and Hygienic Practices: Avoid prolonged skin contact. Wash after using.

Storage Requirements: Store in tightly closed, original container away from flame or other ignition source.

Section 8 **Exposure Controls**

Engineering Controls: No special requirements.

Personal Protection

Ventilation: No Special requirements.

Respiratory: Avoid breathing mist.

Eye Protection: Eye protection based on splash potential.

Clothing: Gloves recommended for sensitive individuals.

Exposure Limit Guidelines: None established.

Section 9

Physical & Chemical Properties

Appearance and Odor: Clear light amber color with a very low citrus odor.

Specific Gravity: .95 to .99, 7.9 to 8.2 lbs/US gallon.

Vapor Density: (Air=1), >1. (Estimated)

Vapor Pressure: Not Determined.

Evaporation Rate: (BuAc=1) <1.

pH of Concentrate: 10 - 11

Solubility in Water: 100%.

Percent Volatile by Volume: 82% (Estimated).

Section 10

Stability & Reactivity

Stability: Stable.

Conditions to Avoid: Avoid contact with oxidizing agents and acids.

Hazardous Decomposition: None expected under normal conditions.

Hazardous Polymerization: Should not occur.

Section 11

Toxicity Information

Toxicity: Fundulus heteroclitus, LC₅₀, 4 days - 2000 ppm.

Section 12

Ecological Information

Biodegradability: Biodegradable.

BOD, 5 day: >210,000 mg/L; COD: 1,100,000 mg/L.

Liquid is not expected to have acute toxicity to aquatic organisms.

Section 13

Disposal Considerations

Biodegradability: Biodegradable.

RCRA Classification: This product has been evaluated for RCRA characteristics and does not meet the criteria for a hazardous waste, if discarded in its purchased form.

Special Instructions: No special requirements.

Section 14
Transportation Information

U.S. Department Of Transportation (DOT)

Shipping Description: Not Regulated

International Maritime Dangerous Goods (IMDG)

Shipping Description: Not regulated. Flash point is above 61°C.

International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID#: Not Regulated. Flash point is above 61°C.

Section 15
Regulatory Information

WHMIS Classification: Not Applicable.

DSL: Contains no hazardous ingredients.

CERCLA, State and Local Planning (Reportable Quantities): Not required.

OSHA Compliance: This MSDS prepared in accordance with 29CFR 1910.1200 and ANSI Z400.1 standard.

SARA Title III Superfund: The product in its purchased form is not regulated under the SARA "Hazard Categories" under Section 311 and 312 of the Superfund Amendment and the Reauthorization Act of 1986 (SARA Title III).

State Right-to-Know Compliance: Not required.

TSCA: Although components of this product find listing under the Toxic Substances Act (TSCA), this blended product requires no import or export declaration.

Volatile Organic Compound (VOC) Content: This product complies with all VOC requirements in all 50 states.

Special Instructions: No special requirements.

Section 16
Other Information

Hazard: (Based on HMIS Standard), Health: 0 Flammability: 0 Reactivity: 0

Hazard Index: Minimal: 0, Slight: 1, Moderate: 2, High: 3, Extreme: 4



HEALTH	0
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	

We believe the information contained herein is accurate and current as of the date of this Material Safety Data Sheet. Nevertheless, the user must evaluate and determine whether the conditions for use and application of the product, including proper disposal thereof, are appropriate, safe, and legal.