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ORANGE-SOL
 Household Products

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 MSDS-70081-6-10-99
 Date Prepared: 27 February 1995
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MATERIAL SAFETY DATA SHEET

De-Solv-it[®]

Citrus Solution[™]

* A registered trademark of The Orange-Sol Group of Companies, Ltd.
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SECTION 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: De-Solv-it[®] Citrus Solution[™]
Product Use: For removal of grease, oil, asphalt, chewing gum, crayon, blood, grass stains, waxes, cosmetics.
PIN Number: NA1993
Distributor: Orange-Sol Household Products, Inc.
 1400 N. Fiesta Blvd., Bldg. 100
 Gilbert, AZ 85233-1000
For Information: 800/279/8822 (7AM-4PM Mon-Fri MST)
In an Emergency: 800/279/8822 (7AM-4PM Mon-Fri MST)

J. A. Gurney, Ph.D.

Prepared by: J. A. Gurney, Ph.D.
Preparation Date: 27 February 1995

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

This section is confidential.

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Avoid eye contact.

Primary Routes of Entry: Eye and oral.

Physical Hazard: Combustible.

Health Hazard:

Acute Exposure:

Eye: Eye contact may cause moderate irritation.

Skin: May cause irritation.

Ingestion: May cause headache and gastric disturbances such as nausea and diarrhea.

Vapor Inhalation: Vapor not expected to cause a problem. Inhalation of mists may cause irritation and breathing difficulty.

Chronic Exposure: Not established.

Carcinogenicity Listings: NTP: None, IARC: None, OSHA: None, ACGIH: none.

Signs & Symptoms of Overexposure: Pain and reddening at the contact site.

Medical Conditions Aggravated by Exposure: A pre-existing dermatitis may become aggravated in a sensitive individual.

SECTION 4 FIRST AID PROCEDURES

Eye: Remove any contact lenses, lift eyelids and immediately flush eyes with water for 15 minutes. If irritation persists, contact a physician.

Skin: Remove contaminated clothing and launder before re-wearing. Wash skin thoroughly with soap and water. If irritation develops and persists, contact a physician.

Ingestion: If swallowed do not induce vomiting. May be harmful or fatal if liquid aspirated into the lungs. If nauseous obtain medical help.

Inhalation: If aspirated into the lungs get immediate medical help.

SECTION 5 FIRE AND EXPLOSION HAZARD

Flash Point: >200° F, PMCC. ASTM D-93.

Auto Ignition: Not determined.

Explosion Limits: Not determined.

Flammability Class as Defined by OSHA: Combustible

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

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

Unusual Fire & Explosion Hazard: May produce dense, black smoke; stay upwind of fire.

Special Fire-fighting Precautions: Do not use streams of water; may spread burning liquid.

Fire-fighting Equipment: Use self-contained breathing apparatus in any enclosed space.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Procedures for Clean-Up:

Small Spills: Wipe up and rinse with water. Dispose used wipes in an appropriate waste container.

Large Spills: Dike with soil, sand or other suitable material avoiding the use of sawdust. Rinse area with water.

Personal Precautions: See Sections 5 and 8 for precautions and recommendations.

Environmental Precautions: Avoid the discharge of large amounts to any public waterway.

SECTION 7 HANDLING AND STORAGE

Safe Handling & Hygienic Practices: Minimize personal contact avoiding prolonged skin contact. Wash thoroughly after using.

Storage Requirements: Store in a tightly closed container away from open flame or other ignition source. Keep away from children.

SECTION 8 EXPOSURE CONTROLS

Engineering Controls: Adequate general ventilation. No special requirements under normal conditions.

Personal Protection:

Ventilation: No special requirements.

Respiratory: Avoid breathing any mist. Protective equipment not normally required.

Eye Protection: Use of eye protection based on splash potential.

Gloves: Nitrile gloves recommended for sensitive individual.

Ingestion: Do not ingest.

Exposure Limit Guidelines: None established.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Appearance and Odor: Clear yellow/orange color. Citrus fragrance.
Physical State: Liquid.
Specific Gravity: 0.786; 6.56 lbs/US gallon.
Solubility in Water: Dispersible.
pH: Not Applicable.
Vapor Pressure: Not determined.
Boiling Point: Not determined.
Viscosity: Not determined.
Vapor Density: Not determined.
Percent Volatile by Volume: 84%.
Fusion Point: Not determined.
Evaporation Rate: (Butyl Acetate=1), >1 (Estimated).

SECTION 10 STABILITY & REACTIVITY

Stability: Stable.
Conditions to Avoid: Avoid prolonged and extreme heat, which may generate carbon dioxide and/or carbon monoxide.
Incompatibility: Avoid contact with strong oxidizing agents such as bleaching products.
Hazardous Decomposition: None under normal conditions.
Hazardous Polymerization: Will not occur.

SECTION 11 TOXICITY INFORMATION

This MSDS based on ingredient data and on manufacturing experience.

SECTION 12 DISPOSAL CONSIDERATIONS

RCRA Classification: This product has been evaluated for RCRA classification and does not meet criteria of a characteristic hazardous waste, if discarded in its purchased form.
Volatile Organic Compound (VOC content): Under C12 exemption contains 31.7 Wt% (Estimated).
Special Instructions: Landfill or incinerate at a licensed facility. Avoid discharge of large amounts to public waterways or treatment facilities without authorization. (Private household use not restricted).

SECTION 13 TRANSPORTATION INFORMATION

DOT Labeling: The combustible liquid n.o.s. label is exempt in containers under 110 gallons. Regulation 49CFR173.118A.
Proper Shipping Name: Combustible Liquid n.o.s.
Hazard Class: Combustible.
Identification Number: NA 1993; UN 1A1/Z.80/1.03/91; USA/M4026/.82/1/1.09MM.

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SECTION 14 REGULATORY INFORMATION

OSHA Compliance: This MSDS prepared in accordance with 29CFR 1910.1200 to comply with the OSHA Hazard Communication Standard.

SARA Title III Superfund: Product has been evaluated for RCRA characteristics and does not meet criteria of a hazardous waste if discarded in its purchased form.

CERCLA, State and Local Planning (R.Q.'s): Not required.

State Right-to Know Compliance:

California: In compliance with the Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop.65) to provide a clear and reasonable warning, this product may contain a trace of ethylene oxide, CAS# 75-21-8, which is listed by the Governor of the State of California as required by the act.

Revision Date: 14 October 1999

The information expressed herein are those of experts for Orange-Sol® Industrial Products, Inc. We believe that the information contained herein is accurate and current as of the date of this Material Safety Data Sheet. Since the application in use of the information contained, and the conditions of use are not under the control of Orange-Sol Industrial Products, Inc.; 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.