

## MATERIAL SAFETY DATA SHEET

# De-Solv-it® Industrial Formula Citrus Solvent

• A registered trademark of The Orange-Sol Group of Companies, Ltd.

| Section 1 - PRODUCT & COMPANY IDENTIFICATION |   |
|--|---|
| Product Name:                                | De-Solv-it® Industrial Formula Citrus Solvent   |
| Product Use:                                 | Degreasing and cleaning for institutional and professional needs.                                       |
| PIN Number:                                  | NA-1993   |
| Distributor:                                 | Orange-Sol Industrial Products, Inc.<br>955 North Fiesta Blvd., Suite #1<br>Gilbert, Arizona 85233-2801 |
| For Information:                             | 800/279-8822 (7am-4pm Mon-Fri MST)  |
| In an Emergency:                             | 800/279-8822 (7am-4pm Mon-Fri MST)  |
| Prepared By:                                 | J.A. Gurney, PhD. <i>J.A. Gurney, PhD.</i>  |
| Preparation Date:                            | August 19, 1991   |

| Section 2 - COMPOSITION INFORMATION ON INGREDIENTS |                               |
|--|-------------------------------|
| Components:  | This section is confidential. |

| Section 3 - HAZARDS IDENTIFICATION         |   |
|--|---|
| Emergency Overview:                        | Keep away from heat, sparks, or flames.   |
| Primary Routes of Entry:                   | Skin and oral.  |
| Physical Hazard:                           | Combustible.  |
| Health Hazard:                             |   |
| Acute Exposure:                            | Non-irritating.   |
| Eye:                                       |   |
| Skin:                                      | Ordinary contact with normal individuals not considered hazardous. Prolonged exposure may cause dermatitis in a sensitive individual. |
| Ingestion:                                 | If swallowed, may cause a laxative effect. Not considered hazardous.  |
| Vapor Inhalation:                          | Not considered hazardous.   |
| Chronic Exposure:                          | Not known.  |
| Carcinogenicity Listings:                  | NPT-None, IARC-None, OSHA-None, ACGIH-None.   |
| Signs and Symptoms of Overexposure:        | Reddening, stinging, and swelling at site of contact.   |
| Medical Conditions Aggravated by Exposure: | Contact may aggravate dermatitis in a sensitive individual.   |

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| <b>Section 4 FIRST AID PROCEDURES</b> |  |
|---------------------------------------|--|
| <b>Eye:</b>                           | Remove any contact lenses, then immediately flush with water for at least 15 minutes. If irritation persists, contact a physician. |
| <b>Skin:</b>                          | Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, contact a physician.               |
| <b>Ingestion:</b>                     | Do not induce vomiting. May be harmful or fatal if aspirated into the lungs.   |
| <b>Inhalation:</b>                    | If aspirated into the lungs, get immediate medical help. Otherwise no special requirements.  |

| <b>Section 5 FIRE AND EXPLOSION HAZARD</b>             |  |
|--|--|
| <b>Flash Point and Method:</b>                         | 162°F PMCC   |
| <b>Auto Ignition:</b>                                  | Data not available.  |
| <b>Explosion Limits:</b>                               | Data not available.  |
| <b>Flammability Classification as Defined by OSHA:</b> | Combustible.   |
| <b>Extinguishing Media:</b>                            | Water fog, carbon dioxide, dry chemical, foam.   |
| <b>Unusual Fire and Explosion Hazard:</b>              | May produce black, dense smoke. Stay upwind of a fire.                                   |
| <b>Special Fire-Fighting Precautions:</b>              | Do not use streams of water. This may cause burning liquid to scatter and spread a fire. |
| <b>Fire-Fighting Equipment:</b>                        | Use self-contained breathing apparatus in any closed area.                               |

| <b>Section 6 ACCIDENTAL RELEASE MEASURES</b>          |   |
|---|---|
| <b>Procedures for Clean-up:<br/>For Small Spills:</b> | Absorb with suitable material and discard in an appropriate waste container.                                |
| <b>For Large Spills:</b>                              | Dike spill and recover reusable material. Soak up remainder with suitable material such as soil, sand, etc. |
| <b>Personal Precautions:</b>                          | Review fire and explosion hazards and safety precautions before proceeding. Remove all sources of ignition. |
| <b>Environmental Precautions:</b>                     | Prevent liquid from entering public waterways.  |

| <b>Section 7 HANDLING AND STORAGE</b>        |  |
|--|--|
| <b>Safe Handling and Hygienic Practices:</b> | Avoid prolonged skin contact with contaminated clothing.   |
| <b>Storage Requirement:</b>                  | Store in a tightly closed container away from open flame or other ignition sources. Keep out of the reach of children. |

| <b>Section 8 EXPOSURE CONTROLS</b>           |  |
|--|--|
| <b>Engineering Controls:</b>                 | Adequate general ventilation. Otherwise no special controls. |
| <b>Personal Protection:<br/>Ventilation:</b> | No special requirements under normal conditions.             |
| <b>Respiratory:</b>                          | Not required.  |

|                                   |  |
|-----------------------------------|--|
| <b>Eye Protection:</b>            | Not required.  |
| <b>Gloves:</b>                    | Nitrile or Kevlar gloves for a sensitive individual. |
| <b>Ingestion:</b>                 | Do not ingest.                                       |
| <b>Exposure Limit Guidelines:</b> | No established limits.                               |

| <b>Section 9 PHYSICAL &amp; CHEMICAL PROPERTIES</b> |   |
|---|---|
| <b>Appearance and Odor:</b>                         | Orange color. Citrus odor.                            |
| <b>Physical State:</b>                              | Liquid.   |
| <b>Specific Gravity:</b>                            | 0.809, 6.74 lbs/US Gallon.                            |
| <b>Solubility in Water:</b>                         | Negligible.   |
| <b>pH of Concentrate:</b>                           | Not applicable.                                       |
| <b>Vapor Pressure:</b>                              | 0.025 (estimated).                                    |
| <b>Boiling Point:</b>                               | (50%) 416° F (based on an analogous formulation).     |
| <b>Viscosity:</b>                                   | 1.7 cps (estimated).                                  |
| <b>Vapor Density:</b>                               | (Air=1)>1.  |
| <b>Percent Volatile by Volume:</b>                  | 99.9%.  |
| <b>Pour Point:</b>                                  | -60°F (ASTM -97) (based on an analogous formulation). |
| <b>Evaporation Rate:</b>                            | (Butyl Acetate=1)<1.                                  |
| <b>Kauri-Butanol Number:</b>                        | Data not available.                                   |
| <b>Dielectric Strength:</b>                         | >50,000 volts (estimated).                            |

| <b>Section 10 STABILITY &amp; REACTIVITY</b> |   |
|--|---|
| <b>Stability:</b>                            | Stable.   |
| <b>Conditions to Avoid:</b>                  | Generation of mists that could lead to aspiration into the lungs. |
| <b>Incompatibility:</b>                      | Avoid strong oxidizing agents.                                    |
| <b>Hazardous Decomposition:</b>              | Combustion will produce carbon dioxide and/or carbon monoxide.    |
| <b>Hazardous Polymerizations:</b>            | Will not occur.   |

| <b>Section 11 TOXICITY INFORMATION (based on analogous formulation)</b> |   |
|---|---|
| Test data available on request.   |   |
| <b>Tests:</b>   | Greater than 12,800mg/kg (>16ml/kg).                        |
| <b>Oral: LD<sub>50</sub></b>  | No toxic manifestations.                                    |
| <b>Inhalation:</b>  | Score 0.00.   |
| <b>Draize Eye Irritation:</b>   | Irritation index, 0.2 (low).                                |
| <b>Primary Skin Irritation:</b>   | No deleterious effects.                                     |
| <b>Muscle Tissue:</b>   | Low primary skin irritations. No eye or inhalation effects. |
| <b>Irritancy of Product:</b>  |   |

| Section 12 DISPOSAL CONSIDERATIONS       |   |
|--|---|
| RCRA Classification:                     | This product has been evaluated for RCRA characteristics and does not meet criteria of a hazardous waste if discarded in its purchased form.  |
| Volatile Organic Compound (VOC) Content: | Under method 24 definitions, 808g/liter. Under other definitions based on the C <sub>12</sub> exemption, 14wt%. Consult local regulators for appropriate compliance. (estimated values) |
| Special Instructions:                    | The product is biodegradable based on activated sludge testing. Land fill or incinerate at approved facilities. Keep from public waterways.   |

| Section 13 TRANSPORTATION INFORMATION |   |
|---------------------------------------|---|
| DOT Labelling:                        | The combustible liquid n.o.s. is exempt in containers under 110 gallons. Regulation 49 (FR 173.118A). |
| Proper Shipping Name:                 | Combustible liquid n.o.s.   |
| Hazard Class:                         | Combustible.  |
| Identification Number:                | NA 1993.  |

| Section 14 REGULATORY INFORMATION                         |  |
|---|--|
| OSHA Compliance:  | This MSDS prepared in accordance with 29CFR 1910.1200 and ANSI Z400.1 standard.  |
| TSCA:   | Although components of this product find listing under the Toxic Substances Control Act (TSCA), this blended product requires no import or export declarations.  |
| SARA Title III Superfund:                                 | The product in its purchased form is not regulated under the SARA hazard categories as per the EPA "Hazard Categories" under sections 311 and 312 of the Superfund Amendment and the Reauthorization Act of 1986 (SARA Title III). |
| CERCLA, State and Local Planning (Reportable Quantities): | Not required.  |
| State Right-To-Know Compliance:                           | No hazardous components.   |
| Pennsylvania:   |  |
| Massachusetts:  | Not regulated.   |
| New Jersey:   | No hazardous components.   |
| California:   | No hazardous components.   |

| Section 15 OTHER INFORMATION   |  |
|--|--|
| Hazard Rating: Health - <u>0</u> Flammability - <u>2</u> Reactivity - <u>0</u> |  |
| None = 0 Slight = 1 Moderate = 2 Severe, damage = 3 Extreme = 4                |  |

Revision Date: April 6, 1995

The information expressed herein are those of qualified 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 herein, and the conditions of use of the product are not under the control of Orange-Sol Industrial Products, Inc.; the user must evaluate and determine whether the conditions for use and the application of the product, including proper disposal thereof, are appropriate, safe, and legal.