1 Identification

· **Product identifier** 50747-305V

· **Trade name: De-Solv-it Eco Citrus Solution**
· **Application of the substance / the mixture**
Removal of grease, oil, tar, asphalt, chewing gum, crayon, fresh blood, grass stains, soap scum, waxes, oily cosmetics, adhesives, scuff marks and stickers.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
ORANGE-SOL
Blending & Packaging, Inc.
1400 N. Fiesta Blvd., Bldg. 100
Gilbert, AZ 85233-1000
USA
Toll Free 800-877-7771
Tel 480-497-8822

· **Information department:** Product safety department
· **Emergency telephone number:**
Infotrac
800-535-5053

2 Hazard(s) Identification

· **Classification of the substance or mixture**
H227 Combustible liquid.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
· **Information concerning particular hazards for human and environment:**
The product does not have to be labeled due to the calculation procedure of international guidelines.
· **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 0
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3 Composition/Information on Ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:** No hazardous components

4 First-Aid Measures

· **Description of first aid measures**
· **General information:** No special measures required.
· **After inhalation:** Move to fresh air. If irritation develops and persists, contact a physician.
· **After skin contact:**
Remove affected clothing. Wash skin thoroughly with soap and water. Irritaion develops and persists, contact a physician.
· **After eye contact:**
Remove contact lenses, flush with warer for at least 15 minutes while lifting eyelids. If irritation develops and persists, contact a physician.
· **After swallowing:** Do not induce vomitting. May cause chemical pnemonia if aspirated into lungs.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-Fighting Measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Treat as Oil Fire CO2 Dry Chemical Foam.
· **Special hazards arising from the substance or mixture**
As with any organic material, combustion will produce carbon dioxide and/or carbon monoxide.
· **Advice for firefighters** Do not use streams of water; may spread burning liquid.
· **Protective equipment:**
Fire-fighters should wear appropriate protective equipment and self-conttained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:** No special measures required.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and Storage

· **Handling:**
· **Precautions for safe handling**
No special measures required.
Avoid prlonged skin contact. Wash affected skin after using.
· **Information about protection against explosions and fires:**
Store in tightly closed, original container away from flame or other ignition source.
Rags soaked with any solvent present a fire hazard and should always be stored in UL listed or Factory Mutual approved, covered Containers. Improperly stored rags can create conditions that lead to oxidation. Oxidation, under certain conditions can lead to spontaneous combustion.

· **Conditions for safe storage, including any incompatibilities**
Store in dry, cool and well-ventilated area.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure Controls/Personal Protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
· **Breathing equipment:** Avoid breathing mist.
· **Protection of hands:** Gloves recommended for over-exposure.
· **Material of gloves** Chemical resistent gloves.
· **Eye protection:** Goggles recommended based on splash potential.

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Fluid
Color:	Light yellow
· **Odor:**	Ester-like

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· **pH-value:**	None
· **Change in condition** **Boiling point/Boiling range:**	300 °C (572 °F)
· **Flash point:**	>104.4 °C (>220 °F) (PMCC, ASTM D-93)
· **Flammability (solid, gaseous):**	Non-Flammable
· **Auto igniting:**	Product is not selfigniting
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:** **Lower:** **Upper:**	 Not determined. Not determined.
· **Vapor pressure at 20 °C (68 °F):**	<.04mm Hg
· **Weight per Gallon:** · **Specific Gravity** · **Evaporation rate**	7.4897 lbs/gal .8975 (NBAC=1) <.01
· **Solubility in / Miscibility with Water:** · **Other information**	Not miscible or difficult to mix. No further relevant information available.

10 Stability and Reactivity

· **Reactivity** Not determined.
· **Chemical stability** Stable
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** Keep away from heat or source of ignition.
· **Incompatible materials:** Strong oxidizers, acids and alkalis.
· **Hazardous decomposition products:** CO, CO2

11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
Oral	LD50	17400 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** Mild skin irritant
· **on the eye:** Mild eye irritant
· **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological Information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:** Biodegradable
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal Considerations

· **Waste treatment methods**
· **Recommendation:**
Biodegradable
This product has been evaluated for RCRA characteristics and does not meet the criteria for a hazardous waste, if discarded in its purchased form.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

· **UN-Number**	NA
· **DOT, ADN, IMDG, IATA**	not regulated
· **UN proper shipping name**	Not Regulated

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· **DOT, ADN, IMDG, IATA**	not regulated
· **Transport hazard class(es)**	
· **DOT, ADN, IMDG, IATA**	
· **Class**	not regulated
· **Packing group**	Not Regulated
· **DOT, IMDG, IATA**	not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	-

15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**
None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

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· **Product related hazard informations:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.
· **Contact:** Jack Farnsworth
· **Date of preparation / last revision** 06/04/2015 / -
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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