

# Safety Data Sheet

acc. to OSHA HCS


Printing date 09/02/2015

Reviewed on 09/02/2015

## 1 Identification

- **Product identifier** 50768-001
- **Trade name:** **ORANGE-SOL Industrial Formula**
- **Application of the substance / the mixture**  
Removal of adhesives, asphalt, tar, fresh blood, chewing gum, crayon, grease, scuff marks, oil, soap scum, wax, etc.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
  
 Ratermann Manufacturing, Inc.  
 601 Pinnacle Place  
 Livermore, CA 94550  
  
 Telephone Number: 800-264-7793
- **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 = 2
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  

HEALTH	0	Health = 0
FIRE	2	Fire = 2
REACTIVITY	0	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. Irritation develops and persists, contact a physician.
- **After eye contact:**  
Remove contact lenses, flush with water for at least 15 minutes while lifting eyelids. If irritation develops and persists, contact a physician.
- **After swallowing:** Do not induce vomiting. May cause chemical pneumonia 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-contained 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.
 

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### 7 Handling and Storage

- **Handling:**
  - **Precautions for safe handling**  
No special measures required.  
Avoid prolonged skin contact. Wash affected skin after using.
  - **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.
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### 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 resistant gloves.
  - **Eye protection:** Goggles recommended based on splash potential.
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### 9 Physical and Chemical Properties

· <b>Information on basic physical and chemical properties</b>	
· <b>General Information</b>	
· <b>Appearance:</b>	
Form:	Fluid
Color:	Clear-orange
Odor:	Citrus odor
· <b>pH-value:</b>	None
· <b>Change in condition</b>	
Boiling point/Boiling range:	Undetermined.
· <b>Flash point:</b>	71 °C (160 °F) (PMCC, ASTM D-93)

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· <b>Flammability (solid, gaseous):</b>	Non-Flammable
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure at 20 °C (68 °F):</b>	<.2mm Hg
· <b>Weight per Gallon:</b>	6.65 lbs/gal
· <b>Specific Gravity</b>	.799
· <b>Vapour density</b>	(Air=1) 4.5
· <b>Evaporation rate</b>	(BuAc=1) 0.06
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
· <b>Other information</b>	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, CO<sub>2</sub>

## 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Mild skin irritant
- **on the eye:** Mild eye irritant
- **Sensitization:** No sensitizing effects known.
- **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**

· <b>IARC (International Agency for Research on Cancer)</b>
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None of the ingredients is listed.
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· <b>NTP (National Toxicology Program)</b>
None of the ingredients is listed.
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
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

· <b>UN-Number</b>	NA
· <b>DOT, ADN, IMDG, IATA</b>	not regulated
· <b>UN proper shipping name</b>	Not Regulated
· <b>DOT, ADN, IMDG, IATA</b>	not regulated
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADN, IMDG, IATA</b>	
· <b>Class</b>	not regulated
· <b>Packing group</b>	Not Regulated
· <b>DOT, IMDG, IATA</b>	not regulated

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· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	-

## 15 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
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· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredients is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.
· <b>TSCA (Toxic Substances Control Act):</b>
None of the ingredients is listed.
· <b>Proposition 65</b>
· <b>Chemicals known to cause cancer:</b>
None of the ingredients is listed.
· <b>Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.
· <b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.
· <b>Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.
· <b>Carcinogenic categories</b>
· <b>EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.
· <b>TLV (Threshold Limit Value established by ACGIH)</b>
None of the ingredients is listed.
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.

- **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.

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## 16 Other Information

- **Department issuing SDS:** Environment protection department.

- **Contact:** Jack Farnsworth

- **Date of preparation / last revision** 09/02/2015 / -

- **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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