



# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** ORANGE SOLV

**Uses:** Solvent cleaner, grease, ink, gum and adhesive remover.

**Supplier Details:** ED Oates Pty Ltd Trading As: CITRUS RESOURCES

**Address:** 13-21 Maygar Boulevard, Broadmeadows, Victoria, 3047

**ABN:** 61 004 329 462      **ACN:** 004 329 462

**Telephone:** (03) 9355 6994

**Fax Number:** (03) 9359 9509

**Poisons Information Centre Telephone:** 13 11 26

## 2. HAZARDS IDENTIFICATION

**Hazardous according to criteria of NOHSC/ASCC**

**Risk Classification:** Xi; Irritant

N; Dangerous for the environment

### Risk Phrases

- R10 Flammable  
R38 Irritating to skin.  
R43 May cause sensitisation by skin contact.  
R65 Harmful: May cause lung damage if swallowed.  
R53 May cause long term adverse effects in the aquatic environment.  
R50 Very toxic to aquatic organisms.

### Safety Phrases

- S1/2 Keep locked up and out of reach of children.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 Wear suitable protective clothing.  
S62 If swallowed, do Not induce vomiting; seek medical advice immediately and show this container or label.  
S60 This material and/or its container must be disposed of as hazardous waste.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	Percentage	CAS No.
Limonene/Orange Oil	< 90	5989-27-5
Anti-oxidant	< 0.2	Non Hazardous
Non-ionic Surfactant Blend	< 20	Non Hazardous

### 4. FIRST AID MEASURES

**Swallowed:** Drink 1 or 2 glasses of water. Seek immediate medical advice. Do Not induce vomiting. Never give anything by mouth to an unconscious person.

**Eye Exposure:** Immediately flush eyes with plenty of water holding eyelids open. If eye irritation persists, seek medical advice.

**Skin Exposure:** Remove all contaminated clothing. Wash affected area with plenty of water. If skin irritation persists seek medical advice.

**Inhalation:** Remove victim from exposure to fresh air. Avoid becoming a casualty. If feeling unwell seek medical advice.

**Advice to Doctor**

Treat symptomatically based on individual reactions of patient and judgement of doctor.

### 5. FIRE FIGHTING MEASURES

**Hazchem Code:** 3[Y]

**Suitable extinguishing media:**

Foam, dry agent (carbon dioxide, dry chemical powder).

**Special protective precautions and equipment for fire fighters**

Fire fighters should wear self-contained breathing apparatus. Keep container cool with water spray. May form flammable vapour mixture with air. Vapours may travel considerable distance to source of ignition and flash back.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Shut off all sources of ignition. Material can create slippery conditions. Wear appropriate protective equipment, to prevent skin and eye contamination and breathing vapours.

**Environmental precautions:**

CAUTION: Keep spills and cleaning runoff out of drains and open bodies of water.

**Methods & Materials for Containment & Clean Up:**

Contain spills with inert absorbent materials (e.g. sand, earth).

Transfer liquids and used absorbent material to separate suitable containers for recovery or disposal.

## 7. HANDLING & STORAGE

### Handling:

Avoid contact with eyes and skin. Avoid breathing vapours. Use away from sources of heat and ignition. Take precautionary measures against static discharge.

**Safe work practice:** Terpenes-soaked rags and sawdust can spontaneously combust and is a potential fire hazard. Wash terpene soaked rags before disposal. Never soak up terpenes spills with sawdust or other combustible materials.

### Conditions for safe storage

Store in a cool area and out of direct sunlight. Store away from heat and sources of ignition. Do not store near strong acids or oxidizing agents. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limit(s):** There is no exposure data for this product.

### Exposure controls:

**Eye protection:** Wear safety glasses.

**Hand protection:** Wear suitable gloves.

**Respiratory protection:** If ventilation is poor or working in a confined space then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to AS/NZS 1715 & AS/AZS 1716 for respirator information.

**Engineering measures:** Use in a well ventilated area. Exhaust ventilation may be necessary in poorly ventilated areas and confined spaces. Fumes are heavier than air, prevent accumulation in hollows or sumps.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Yellow.
<b>Odour:</b>	Orange
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	175°C
<b>Melting point/range:</b>	<0°C Water
<b>Flash point:</b>	46-48°C
<b>Lower explosion limit:</b>	0.7%
<b>Upper explosion limit:</b>	6.1%
<b>Vapour pressure:</b>	0.19kPa at 20°C
<b>Relative vapour density:</b>	Not established
<b>Water solubility:</b>	Forms an emulsion
<b>Relative density:</b>	0.838 – 0.843

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY & REACTIVITY

**Hazardous Reactions:** Product is stable under normal conditions of use, storage and temperature

**Materials to avoid:** Incompatible with strong acids and strong oxidizing agents such as chlorine, chlorates, nitrates, chromates and dichromates. Hazardous reactions with polymerization catalysts such as aluminium chloride and acidic clays.

**Polymerization:** Product will not undergo polymerization.

## 11. TOXICOLOGICAL INFORMATION

No data are available for this material.

### Health Effects – Acute

#### Swallowed

Harmful: May cause lung damage if swallowed. If swallowed do NOT induce vomiting; seek medical advice immediately. And show this container or label. Ingestion may be irritating to the gastrointestinal tracts, nausea and vomiting. With vomiting there is a danger of aspiration.

#### Eye

May causes eye irritation.

#### Skin

Avoid contact with skin Irritating to skin. May cause sensitisation by skin contact.

#### Inhaled

Avoid breathing vapour, spray or fumes. Vapours may be irritating to respiratory system, causing coughing and headache.

#### Chronic Effects

Repeated or prolonged skin exposure can cause dryness, de-fatting of skin and lead to dermatitis.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and degradability:** No information available for this product.

**Mobility:** No information available on this product.

#### Additional information

**Environmental fate (exposure):** Avoid contaminating waterways, drains and sewers.

**Bioaccumulative potential:** No information available for this product.

## 13. DISPOSAL CONSIDERATIONS

**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Disposal:** Dispose of in accordance with local, state and federal regulations.

## 14. TRANSPORT INFORMATION

UN Number: 2319

UN Proper Shipping Name: TERPENES HYDROCARBONS N.O.S.

Class & Subsidiary Risk: DG Class 3

Packing Group: III

EPG Number: 3A1

Special Precautions for User: Avoid storage or contact with strong oxidising or reducing agents.

Hazchem Code: 3[Y]

IMDG Marine Pollutant (MP): This product is classified as a MARINE POLLUTANT according to the IMDG code.

## 15. REGULATORY INFORMATION

### Label

Classification and labelling have been performed according to regulations.

Poison Schedule Not scheduled

EPG 3A1

**Australia. Industrial Chemical (Notification and Assessment) Act (AUSTR).** All ingredients in this preparation are listed in the Australian Inventory of Chemical Substances, AICS.

## 16. OTHER INFORMATION

Date of Preparation: 12.03.09

### Key to Abbreviations & Acronyms Used in MSDS:

<	Less Than
>	Greater Than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
NOHSC	National Occupational Health and Safety Commission.
UN	United Nations (Number)
deg C (°C)	Degrees Celsius
g	Gram
Immiscible	Liquids are insoluble in each other
kg	Kilogram
kg/m <sup>3</sup>	Kilograms per cubic metre
ltr	Litre
m <sup>3</sup>	Cubic metre
mg	Milligram
miscible	Liquids form one homogeneous liquid
ppm	Parts per million
wt	weight

Literature References: Supplies MSDS

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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