

# SAFETY DATA SHEET

## ORANGE SOLVENT

Commission Regulation (EU) No 2015/830 of 28 May 2015.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** ORANGE SOLVENT  
**Product number** ORSOLV, SLO119, SLO120, SLO128, SLO132, SLO136, SLO140  
**UFI** UFI: 8X3W-60MJ-600C-GN11

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Solvent. Cleaning agent.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** ORAPI APPLIED LIMITED,  
SPRING ROAD,  
SMETHWICK,  
WEST MIDLANDS, B66 1PT, ENGLAND  
Tel: 0121-525-4000  
Fax: 0121-525-4919  
lee.baughan@orapiapplied.com

**Contact person** Lee Baughan

#### 1.4. Emergency telephone number

**Emergency telephone** 0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304  
**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** Prolonged skin contact may cause redness and irritation. May cause skin sensitisation or allergic reactions in sensitive individuals. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Environmental** The product contains a substance which may cause long-term adverse effects in the environment.

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P331 Do NOT induce vomiting.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>UFI</b>	UFI: 8X3W-60MJ-600C-GN11
<b>Contains</b>	Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics, Orange Essential Oil, (R)-p-mentha-1,8-diene
<b>Supplementary precautionary statements</b>	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P362 Take off contaminated clothing.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P391 Collect spillage.</p> <p>P405 Store locked up.</p>

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, &lt;2% aromatics</b>	<b>60-100%</b>
CAS number: —	EC number: 926-141-6
	REACH registration number: 01-2119456620-43-XXXX
<b>Classification</b>	
Asp. Tox. 1 - H304	
<b>Orange Essential Oil</b>	<b>10-30%</b>
CAS number: 8028-48-6	EC number: 232-433-8
	REACH registration number: 01-2119493353-35-XXXX
<b>Classification</b>	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	

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<b>d-LIMONENE</b>		<b>5-10%</b>
CAS number: 5989-27-5	EC number: 227-813-5	REACH registration number: 01-2119529223-47-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Skin contact</b>	Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	Congestion of the lungs may occur, producing severe shortness of breath.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin. Allergic rash.
<b>Eye contact</b>	Visual disturbances, including blurred vision.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	The product is not flammable.
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**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

### 5.3. Advice for firefighters

#### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

#### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Avoid inhalation of vapours.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

#### SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Orange Essential Oil (CAS: 8028-48-6)

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 31.1 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 8.89 mg/kg/day</p> <p>Workers - Dermal; Long term local effects: 185.8 µg/cm<sup>2</sup></p> <p>General population - Oral; Long term systemic effects: 4.44 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 7.78 mg/m<sup>3</sup></p> <p>General population - Dermal; Long term local effects: 92.9 µg/cm<sup>2</sup></p> <p>General population - Dermal; Long term systemic effects: 4.44 mg/kg/day</p>
<b>PNEC</b>	<p>- Fresh water; 5.4 µg/l</p> <p>- Fresh water, Intermittent release; 5.77 µg/l</p> <p>- marine water; 0.54 µg/l</p> <p>- STP; 2.1 mg/l</p> <p>- Sediment (Freshwater); 1.3 mg/kg</p> <p>- Sediment (Marinewater); 0.13 mg/kg</p> <p>- Soil; 0.261 mg/kg</p>

### 8.2. Exposure controls

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### Protective equipment



### Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

### Other skin and body protection

Wear an apron.

### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Light (or pale). Yellow.
Odour	Orange.
pH	pH (concentrated solution): 7
Initial boiling point and range	175 - 260°C @ 760 mm Hg
Flash point	69°C Closed cup.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.6 % Upper flammable/explosive limit: 7.0 %
Vapour density	> 1.0 (air = 1)
Relative density	0.8 @ 20°C
Solubility(ies)	Immiscible with water.

### 9.2. Other information

Other information	None.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

Stability	No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with strong oxidising agents. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Acids - oxidising.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** No information available.

**Inhalation** No significant hazard at normal ambient temperatures. Heating may generate the following products: Irritating gases or vapours.

**Ingestion** Aspiration hazard if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

**Skin contact** May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals. May cause defatting of the skin but is not an irritant. Prolonged contact may cause dryness of the skin.

**Eye contact** Vapour or spray in the eyes may cause irritation and smarting.

## SECTION 12: Ecological information

**Ecotoxicity** Dangerous for the environment.

### 12.1. Toxicity

**Toxicity** Very toxic to aquatic life with long lasting effects.

### Ecological information on ingredients.

#### d-LIMONENE

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 35 mg/l, Oncorhynchus mykiss (Rainbow trout)

##### Chronic aquatic toxicity

**M factor (Chronic)** 1

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

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**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is insoluble in water and will spread on the water surface.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

**UN No. (ADN)** 3082

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** Environmentally Hazardous Substance, Liquid, n.o.s. (contains d-limonene)

**Proper shipping name (IMDG)** Environmentally Hazardous Substance, Liquid, n.o.s. (contains d-limonene)

**Proper shipping name (ICAO)** Environmentally Hazardous Substance, Liquid, n.o.s. (contains d-limonene)

**Proper shipping name (ADN)** Environmentally Hazardous Substance, Liquid, n.o.s. (contains d-limonene)

### 14.3. Transport hazard class(es)

**ADR/RID class** 9

**ADR/RID classification code** M6

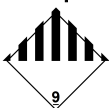
**ADR/RID label** 9

**IMDG class** 9

**ICAO class/division** 9

**ADN class** 9

### Transport labels



### 14.4. Packing group

**ADR/RID packing group** III

**IMDG packing group** III

**ICAO packing group** III

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ADN packing group            III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS                                F-A, S-F

ADR transport category        3

Emergency Action Code        •3Z

Hazard Identification Number   90  
(ADR/RID)

Tunnel restriction code        (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to   Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations**            Control of Substances Hazardous to Health Regulations 2002 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment  
Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

**EU legislation**                    Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18  
December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of  
Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16  
December 2008 on classification, labelling and packaging of substances and mixtures (as  
amended).

**Guidance**                            Workplace Exposure Limits EH40.  
CHIP for everyone HSG228.  
Safety Data Sheets for Substances and Preparations.  
Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information



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<b>Abbreviations and acronyms used in the safety data sheet</b>	ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. GHS: Globally Harmonized System. IMDG: International Maritime Dangerous Goods. LC <sub>50</sub> : Lethal Concentration to 50 % of a test population. LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. SVHC: Substances of Very High Concern. vPvB: Very Persistent and Very Bioaccumulative. EC <sub>50</sub> : 50% of maximal Effective Concentration. UN: United Nations.
<b>Revision date</b>	28/11/2020
<b>Revision</b>	7
<b>Supersedes date</b>	20/07/2016
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
<b>Signature</b>	Health and Safety Manager

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