Ainsworth Dental Company
7/87 Fitzroy Street Marrickville NSW 2204
PO BOX 5055 Marrickville NSW 2204
Tel: 1300 60 22 40 (+61 2 9519 7223)
Fax: 1300 60 22 50 (+61 2 9519 7101)

Safety Data Sheet

according to
the Preparation of SDS for Hazardous Chemicals
Code of Practice February 2016 – Safe Work Australia

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

1.1 Product Identifier:

Trade name: Orange Solvent Liquid

Other names:

Oil Orange10:1, Oil of Orange Valencia 5-fold; Oil Orange Valencia 5-Fold; Oil Orange Valencia 5-Fold (Specially Dewaxed): C.P. Orange Oil; Aldehyde Orange Oil Phase; Orange Essence Oil (Brazil); AAALD18800; AAOIL53101; Australian Orange Oil (FAORA44552); Twenty Two Fold Orange Oil; Orange Oil Concentrate 22X; AFORA00022; Oil of Orange; Oil of Orange Brazilian; Orange Oil Sweet; AAOIL00585; AAOIL00590; Orange Oil Terpeneless; AAOIL00588

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

Essential oil. Therapeutic active, fragrance and flavour applications

Application of the substance/the preparation: Orange Solvent Liquid

1.3 Details of the supplier for the safety data sheet

Ainsworth Dental Company
7/87 Fitzroy Street Marrickville NSW 2204
PO BOX 5055 Marrickville NSW 2204
Tel: 1300 60 22 40 (+61 2 9519 7223)
Fax: 1300 60 22 50 (+61 2 9519 7101)

1.4 Emergency Telephone: Poisons Information Centre (National) 13 11 26

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the “Other Information” section at the end of this Data Sheet.

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture:

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

This material hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

2.2 Classification of the substance or mixture:

Flammable liquids – Category 3

Aspiration hazard – Category 1

Skin Irritation – Category 2

Skin Sensitisation – Category 1

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations.

Acute Aquatic Toxicity – Category 1

Chronic Aquatic Toxicity – Category 1

SIGNAL WORD: DANGER

2.3 Hazard Statements

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.

H410 Very toxic to aquatic life with long lasting effects.

2.4 Precautionary Statement(s):

Prevention:

P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist / vapours / spray.

Precautionary Statement(s) continued

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

2.5 Response:

P301 +310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician..

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see First Aid Measures on Safety Data Sheet).

P362 Take off contaminated clothing and wash before re-use.

P363 Wash contaminated clothing before re-use.

P370 In case of fire:

P378 Use normal foam, dry agent (carbon dioxide, dry chemical powder) to extinguish.

P391 Collect spillage.

Storage:

P403+P235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance iwth local/regional/national/international regulations.

Poisons Scedule (SUSMP): None allocated

SECTION 3: Composition/information on ingredients

Components

Description: Orange, sweet, extract

Dangerous components: CAS: 8028-48-6

Proportion: 100%

Hazard Codes: H226, H304, H315, H317, H410

SECTION 4: First aid measures

4.1 For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

After inhalation: Remove victim from area of exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

After skin contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water and soap. If swelling redness, blistering or irritation occurs – seek medical assistance.

After eye contact: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

After ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscience patient. Get to a doctor or hospital quickly.

Indication of immediate medical attention and special treatment needed: Treat symptomatically. Delayed pulmonary oedema may result.

SECTION 5: Firefighting measures

5.1 Suitable extinquishing media: Normal foam, dry agent (carbon dioxide, dry chemical powder).

5.2 Hazchem or Emergency Action Code: 3Y

5.3 Special hazards arising from the substance or mixture: Flammable liquid. On burning will emit toxic fumes, including those of oxides of carbon.

5.4 Special protective equipment and precautions for fire-fighters: Heating can cause expansion or decomposition of the material which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

SECTION 6: Accidental release measures

Emergency Procedures/Environmental precautions: Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Accidental release measures continued

Personal Precautions/Protective Equipment/Methods and material for containment and cleaning up: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing vapours. Work up wind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use non-sparking tools. Collect and seal in properly labelled containers or drums for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Avoid skin and eye contact and breathing vapour, mists and aerosols. May form flammable vapour mixtures with air. Vapour may travel a considerable distance to source of ignition and flash back. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing swithches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use – check regularly for leaks.

SECTION 8: Exposure and controls/personal protection

8.1 Control parameters: No value assigned for this specific material by Safe Work Australia.

8.2 Appropriate engineering controls: Use in well ventilated areas. If inhalation risk exists: Use with local exhaust ventilation or while wearing organic vapour/particulate respirator. Keep containers closed when not in use.

8.3 Individual protection measures, such as personal Protective Equipment (PPE): The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.


Goggles

Overalls

Impervious Gloves

Wear goggles, overalls, and impervious gloves. If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Physical State	Liquid
Colour:	Colourless to Yellow – Light Brown to deep orange - Red
Odour:	Citrus
Odour threshold:	Not available.
Solubility:	Immiscible with water.
Specific Gavity:	0.835 – 0.895 @ 25ºC
Relative Vapour Density (air=1):	Approx. 4.7
Vapour Pressure (20ºC):	Approx. 2 mmHg @ 25ºC
Flash point (ºC):	45 - 49 (CC)
Flammability Limits (%):	Approx. 0.7 – 6.1
Auto-Ignition temperature (ºC)	237 - 260
% Volatile by Weight:	Approx. >92
Solubility in Water (g/L):	Approx. 0.0138 @ 25ºC.
Melting Point Range (ºC):	-70 to -90
Boiling Point Range (ºC):	175 - 185
Decomposition Point:	Not available
pH:	Not available
Viscosity:	Not available
Evaporation Rate:	Approx. 5.8 (diethyl ether = 1)
Partition Coefficient:	Approx. 4.23

SECTION 10: Stability and reactivity

10.1 Reactivity: No information available.

10.2 Chemical stability: Stable under normal conditions of use.

10.3 Possibility of hazardous reactions: Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. Hazardous polymerisation will not occur. Peroxides formed by oxidation may present an explosion hazard if they become highly concentrated through distillation.

10.4 Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame.

10.5 Incompatible materials: Incompatibl with oxidising agents, acidic clays and mineral acids.

10.6 Hazardous decomposition products: Oxides of carbon.

SECTION 11: Toxicology information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung).

Eye contact: May be an eye irritant.

Skin contact: Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways).

Acute toxicity: Oral LD50 (rat): >5,000 mg/kg (1)
Dermal LD50 (rabbit): >5,000 mg/kg (1)

Skin corrosion/irritation: Irritant

Serious eye damage/irritation: No information available.

Respiratory or skin sensitisation: A skin sensitiser.

Chronic effects: No information available for the product.

Mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

Specific Target Organ Toxicity: No information available.

(STOT) – single exposure:
Specific Target Organ Toxicity: No information available.

(STOT) – repeated exposure:
Aspiration hazard: May be fatal if swallowed and entres airways.

SECTION 12: Ecological information

Ecotoxicity: Avoid contaminating waterways.

Persistence/degradability: The material is partially biodegradable. (2).

Bioaccumulative potential: This product shows a high bioaccumulation potential. (2).

Mobility in soil: No information available.

Aquatic toxicity: Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

Disposals methods: Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations. Advise flammable nature. Normally suitable for incineration by an approved agent.

SECTION 14: Transport information

14.1 Roads and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN Number:	2319
Transport Hazard Class:	3 Flammable Liquid
Packing Group:	III
Proper Shipping Name or Technical Name:	**Terpene Hydrocarbons, N.O.S. (ORANGE OIL)**
Hazchem or Emergency Action Code:	**3Y**

14.2 Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

UN No.:	2319
Transport Hazard Class:	3 Flammable Liquid

14.2 Marine Transport continued

Packing Group:	III
Proper Shipping Name or	-
Technical Name:	Terpene Hydrocarbons, N.O.S. (ORANGE OIL)
IMDG EMS Fire:	F-E
IMDG EMS Spill:	S-D
Marine Pollutant:	Yes

14.3 Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods. Regulations for transport by air; DANGEROUS GOODS.

UN No.:	2319
Transport Hazard Class:	3 Flammable Liquid
Packing Group:	III
Proper Shipping Name or	-
Technical Name:	Terpene Hydrocarbons, N.O.S. (ORANGE OIL)

SECTION 15: Regulatory information

15.1 Classification.

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

15.2 Classification of the substance or mixture.

Flammable liquids – Category 3

Aspiration hazard – Category 1

Skin Irritation – Category 2

Skin sensitisation – Category 1

15.3 The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations:

Acute Aquatic Toxicity – Category 1

Chronic Aquatic Toxicity – Category 1

15.4 Hazard Statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

15.4 Hazard Statements continued

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

15.5 Poisons Schedule (SUSMP): None allocated.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

SECTION 16: Other information

(1) Registry of Toxic Effects of Chemical Substances. Ed. D. Sweet, US Dept. Of Health & Human Services: Cincinatti, 2014.

(2) Supplier Safety Data Sheet; 11/2020

Reason(s) for Issue:

Revised Primary SDS

Product Name change

Addition/Change of synonymous name(s)

If clarification or further information is needed, the user should contact their Ainsworth Dental Company representative at the contact details on page 1.

The data and information given in this Safety Data Sheet are accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this material since this is beyond our control.