

## Safety Data Sheet OIL RED O

SDS no. E9QTW86H • Version 1.0 • Date of issue: 2024-11-21

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### SECTION 1: Identification

#### GHS Product identifier

Product name OIL RED O

Product number AORO

#### Recommended use of the chemical and restrictions on use

Laboratory reagent.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### National contact

Name Australian Biostain Pty Ltd  
Address 16 Shipwright Road  
5016 Largs North SA  
Australia

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

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### SECTION 2: Hazard identification

#### General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

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- Serious eye damage/eye irritation, Cat. 2A
- Specific target organ toxicity following single exposure, Cat. 3
- Flammable liquids, Cat. 2

### GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

#### Warning

#### Hazard statement(s)

H225

Highly flammable liquid and vapor

H319

Causes serious eye irritation

H336

May cause drowsiness or dizziness

#### Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P271

Use only outdoors or in a well-ventilated area.

P280

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

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER/doctor/physician if you feel unwell.

P337+P313

If eye irritation persists: Get medical advice/attention.

P370+P378

In case of fire: Use agents recommended in Section 5 of SDS for extinction

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to an approved waste disposal facility

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Components

Component	CAS no.	Concentration
Isopropanol (EC no.: 200-661-7; Index no.: 607-403-00-6)	67-63-0	>= 99 % (weight)
CLASSIFICATIONS: Flammable liquids, Cat. 2; Serious eye damage/eye irritation, Cat. 2A; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation; H336 - May cause drowsiness or dizziness.		
Oil Red O (EC no.: 215-295-3)	1320-06-5	< 0.5 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
In case of skin contact	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention if irritation develops or persists.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Caution: Use of water spray when fighting fire may be inefficient.

Small fire: Use alcohol resistant foam, dry chemical, CO<sub>2</sub> or water spray.

Large fire: Use alcohol resistant foam, fog or water spray - Do not use water jets.

If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.

Avoid getting water inside containers. Alcohol resistant foam is a preferred firefighting medium, but if not available, fine water spray can be used.

### Specific hazards arising from the chemical

HIGHLY FLAMMABLE: These liquids have a low flashpoint - Will be easily ignited by heat, sparks or flame. Vapours will form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Fire will produce irritating, poisonous and/or corrosive gases. Vapours from runoff may create explosion hazard.

### Special protective actions for fire-fighters

Wear SCBA and fully-encapsulating, gas-tight suit when handling these substances. Structural firefighter's uniform is NOT effective for these materials.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50m - All equipment used when handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours - Water spray may be used to knock down or divert vapour clouds. Absorb with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Use in well ventilated areas away from all ignition sources. Intrinsically safe equipment only must be used in area where this chemical is being used. The use of compressed air for filling, discharging, mixing or handling is prohibited due to the vapour hazard. Containers must be earthed to avoid generation of static charges when agitating or transferring product.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a cool, dry, well-ventilated place, away from direct sunlight and other sources of heat or ignition. Isolate from incompatible substances. Store away from oxidizing agents. Keep containers closed at all times - check regularly for leaks. Do not eat, drink or smoke in areas of use or storage. Empty containers retain residue (liquid and/or vapour and can be dangerous. Do not pressure cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources or ignition.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: 67-63-0

Isopropanol

AU/SWA (Australia): 500 ppm; 1230 mg/m3 STEL inhalation; 400 ppm; 983 mg/m3 TWA inhalation;

### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

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Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Red, clear, mobile liquid.
Color	No data available.
Odor	Alcoholic
Odor threshold	No data available.
Melting point/freezing point	-89 °C
Boiling point or initial boiling point and boiling range	82 °C
Flammability	Highly Flammable
Lower and upper explosion limit/flammability limit	Flammable Limits - Lower: 2.00% Flammable Limits - Upper: 12%
Flash point	12 °C
Explosive properties	Not classified as explosive, but vapours may form explosive mixtures.
Auto-ignition temperature	398 °C
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	Log P(oct) = 0.05. isopropanol
Vapor pressure	43 hPa at 20 °C
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 0.79
Relative vapor density	No data available.
Particle characteristics	No data available.

### Supplemental information regarding physical hazard classes

No data available.

### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

Risk of ignition. Vapours may form explosive mixtures with air

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Contact with strong oxidising agents (e.g. nitrates, perchlorates, peroxides) increases risk of fire and explosion. Contact with phosgene forms isopropyl chloroformate and hydrogen chloride. Explosive thermal decomposition may occur in contact with iron salts. Mixture with hydrogen-palladium can ignite in air.

**Conditions to avoid**

Heat, flames, ignition sources, electrostatic discharge, sunlight and incompatibles.

**Incompatible materials**

Strong oxidising agents (e.g. chromium trioxide, nitric acid and nitrates, nitrogen oxides, nitrates, calcium hypochlorite, chlorine, sodium dichromate, hydrogen peroxide and other peroxides, permanganates and perchlorates), strong acids (e.g. nitric acid, sulfuric acid, fuming sulfuric acid, hypochlorous acid, oleum, perchloric acid), hydrogen peroxide-sulfuric acid combination, acid anhydrides, acetaldehyde, nitroform, organic nitro compounds, aldehydes, amines, alkali metals (e.g. sodium or potassium) or alkaline earth metals (e.g. magnesium or calcium), aluminium, crotonaldehyde or phosgene, potassium tert-butoxide, trinitromethane, iron and iron salts, hydrogen-palladium combination, ethylene oxide, hexamethylene diisocyanate and other isocyanates and tri-isobutyl aluminium.

**Hazardous decomposition products**

Irritant gases, which may include unburned alcohol and toxic constituents, oxides of carbon and peroxides.

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## **SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Acute Toxicity - Oral: LD50 (rat): 5045 mg/kg.

Ingestion: Unlikely under normal occupational exposures, but swallowing a minor amount may cause minor throat irritation and vomiting. Ingestion of larger amounts (about 100 grams or more) may cause headache, dizziness, drowsiness, inebriation, unconsciousness, narcosis, gastrointestinal pain, cramps, nausea, vomiting and diarrhoea. Large amounts may cause respiratory paralysis, coma, unconsciousness and death. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Aspiration can result in severe, life-threatening lung damage.

Inhalation: Mild irritation to the nose, throat and upper respiratory tract can occur at concentrations above 400 ppm. It can probably cause central nervous system (CNS) depression, based on animal information and comparison to related alcohols. Symptoms may include headache, nausea, vomiting, dizziness, drowsiness, staggering, ataxia, deep narcosis and incoordination. Higher concentrations may result in unconsciousness and death.

**Skin corrosion/irritation**

Degreasing effect on the skin, possibly followed by secondary inflammation. Brief contact is not irritating or mildly irritating to the skin, based on human and animal evidence. May be absorbed through the skin with possible systemic effects.

**Serious eye damage/irritation**

Moderate to severe eye irritant, based on animal evidence. Exposure of volunteers to vapours at approximately 400 ppm for 3 to 5 minutes produced mild irritation, while 800 ppm was considered objectionable. Direct eye contact with the liquid and splashes may cause severe eye irritation, pain, redness, possible corneal burns and eye damage.

**Respiratory or skin sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Germ cell mutagenicity: Not classified based on available information.

Mutagenicity: Not classified based on available information.

**Carcinogenicity**

Isopropanol [67-63-0] is evaluated in the IARC Monographs (Vol. 15, Suppl. 7, Vol. 71; 1999) as Group 3: Not classifiable as to carcinogenicity to humans.

See: <http://monographs.iarc.fr/ENG/Monographs/vol71/mono71-45.pdf>

**Reproductive toxicity**

There is no human information available. It is not possible to draw any conclusions from the available animal studies.

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness

**Specific target organ toxicity (STOT) - repeated exposure**

Not classified based on available information.

**Aspiration hazard**

Not classified based on available information.

**Additional information**

Chronic Effects: Repeated or prolonged skin contact can cause drying, cracking and dermatitis due to its defatting. Prolonged contact (e.g. clothing saturated with the product) can be irritating. Some animal isopropanol exposure studies have noted increased liver and kidney weights in exposed animals but no observable relevant pathology. With particular relevance to the liver, this weight change may be considered to be more of a metabolic response rather than a toxic effect of the alcohol. Occupational exposure to isopropanol has not been reported as causing long term effects.

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**SECTION 12: Ecological information**

**Toxicity**

Ecological Information: The following information relates to isopropanol.

Acute Toxicity - Fish: LC50 (*Pimephales promelas*): 9640 mg/l /96 h.

Acute Toxicity - Algae: EC50 (*Desmodesmus subspicatus*): > 1000 mg/l /72 h.

Acute Toxicity - Bacteria: EC50 (*Photobacterium phosphoreum*) EC50: 22000 mg/l /15 min Microtox-Test.

Maximum permissible toxic concentration:

EC5 (*Pseudomonas putida*): 1050 mg/l /16 h.

Acute Toxicity - Other Organisms: Maximum permissible toxic concentration:

EC5 (*Entosiphon sulcatum*): 4930 mg/l /72 h.

**Persistence and degradability**

Abiotic degradation: Rapid degradation. ( air )

Biologic degradation: Biological degradableness: 95 % /21 D of modified OECD Screening Test.

TOD: 2.40 g/g. BOD 49 % from TOD /5 d. COD 96 % from TOD.

**Bioaccumulative potential**

No bioaccumulation is to be expected (log P(o/w) <1).

**Mobility in soil**

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Distribution: log P(o/w): 0.05 (experimental).

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### SECTION 13: Disposal considerations

#### Disposal methods

##### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

##### Sewage disposal

No bioaccumulation is to be expected (log P(o/w) <1).

##### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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### SECTION 14: Transport information

#### ADG (Road and Rail)

UN Number: 1993

Class: 3

Packing Group: II

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

#### Hazchem emergency action code (EAC)

•3YE

#### IMDG

UN Number: 1993

Class: 3

Packing Group: II

EMS Number:

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

#### IATA

UN Number: 1993

Class: 3

Packing Group: II

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

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### SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

##### Australia SUSMP

Poison Schedule: NS

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### SECTION 16: Other information

#### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the



suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

#### **Preparation information**

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](https://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)