

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

1.1 Product identifier

Product Code ZinClear® IM50 JJ
Product Description Zinc oxide dispersed in Jojoba oil

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

Identified uses Cosmetic raw material for sunscreen, skin protection, cosmetics

1.3 Details of the supplier of the safety data sheet

Company Antaria Pty Ltd, 112 Radium Street, Welshpool, Western Australia
6106, Australia
Responsible Department Quality Assurance, info@antaria.com

1.4 Emergency telephone number (24 hour)

+61 7 3724 0772

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Acute aquatic toxicity, Category 1, H400
Chronic aquatic toxicity, Category 1, H410

Classification according to Directive 67/548/EEC (DSD)

N; R50/53

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Hazard pictograms



GHS09: environment

Signal word

Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

Labelling according to Directive 67/548/EEC (DSD)

Hazardous Symbol	N	Dangerous for the environment.
Risk Phrase	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrase	S60	This material and its container must be disposed of as hazardous waste.
	S61	Avoid release to the environment. Refer to special instructions / safety data sheet.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	Weight %	CAS	EINECS	Classification according to 67/548/EEC	Classification according to (EC) 1272/2008 (CLP)
Zinc oxide	50	1314-13-2	215-222-5	N; R50/53	H410
Simmondsia Chinensis (Jojoba) Seed Oil	30-59	61789-91-1	289-964-3	-	-
Glyceryl isostearate	1-5.5	66085-00-5	266-124-4	-	-
Polyhydroxy stearic acid	1-4	27924-99-8	-	-	-

SECTION 4: First aid measures**4.1 Description of first aid measures**

Skin Wash affected areas with water and soap. Seek medical attention if irritation develops.

Eyes Flush gently for 10 – 15 min with running water. Seek medical attention if irritation develops.

Inhalation If over exposure occurs, remove to fresh air. If irritation or discomfort persists seek medical attention.

Ingestion Drink plenty of water to dilute. Do NOT induce vomiting without first seeking medical advice. Get medical attention if person feels unwell.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and repeated use may result in slight irritation for people with sensitive skin.

Zinc compounds are only slightly absorbable via the gastrointestinal tract.

4.3 Indication of immediate medical attention and special treatment needed

None known.

SECTION 5: Fire fighting measures**5.1 Extinguishing media***Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surroundings.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Combustible liquid.

Thermal decomposition will evolve irritant vapours.

5.3 Advise for fire fighters*Special protective equipment for fire fighters*

In the event of fire, wear self-contained breathing apparatus and protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Wear protective clothing, gloves and safety glasses when cleaning in enclosed areas.

Clear area of personnel

For emergency responders

Protective equipment, see section 8.

6.2 Environmental precautions

Do not allow entering sewage and drainage systems.

Avoid soil contamination.

6.3 Methods and materials for containment and cleaning up

Clean up all spills immediately.

Contain spill with sand or other non-combustible materials. Use bunding and cover drains.

Collect recoverable material into labelled containers for recycling.

6.4 Reference to other sections

Indications on waste treatment see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in a dry area, removed from foodstuff and incompatible materials such as acids and bases.

7.3 Specific end uses

As identified in section 1.2.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Exposure limits are not available for Zinc oxide dispersed in Jojoba oil. Data is available on request on the individual components.

8.2 Exposure controls**Appropriate engineering control**

Under normal conditions of use and handling of small quantities, no special ventilation precautions are required. When working with large amounts in poorly ventilated areas, mechanical extraction ventilation is recommended.

Individual protection measures

Protective clothing is specially selected for the workplace and depends on the concentration and quantity of the substance handled.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

Eye/face protection

Safety glasses.

Hand protection

Rubber gloves.

Respiratory protection

Not required.

Environmental exposure control

Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Pale yellow to yellow green
Form	Liquid
Odour	Mild odour
Odour threshold	No information available
pH	No information available
Melting point /freezing point	<10°C
Initial boiling point and boiling range	No information available
Flash point	>250°C
Evaporation rate	No information available
Flammability	Combustible liquid
Upper/lower flammability limits	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	1.4 – 1.8 g/cm ³
Solubility	Insoluble in water
Partition coefficient	No information available
Auto ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	Not to be expected
Oxidising properties	Not to be expected

9.2 Other data

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected when handling the product according to its intended use.

10.2 Chemical stability

Under storage at ambient conditions the product is stable.

10.3 Possibility of hazardous reactions

Violent reactions possibly with strong oxidising agents.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Incompatible with strong oxidising agents, strong acids and alkalis.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

No data available on Zinc oxide dispersed in Jojoba oil.

Information on individual substances in the mixture**Zinc oxide**

Acute toxicity, oral	LD ₅₀ (mouse) 15,000 mg/kg (Löser, 1972) LD ₅₀ (rat) >5,000 mg/kg (Löser, 1977)
Acute toxicity, inhalation	LC ₅₀ (mouse) >5.7 mg/L in 4 hr (Klimish & Freisberg)
Skin irritation	Not irritant (Löser, 1977, Lansdown, 1991)
Eye irritation	Not irritant (Van Huygevoort, 1999; Thijssen, 1978; Löser, 1977)
Sensitisation	No sensitising effects known (Van Huygevoort, 1999)
Germ cell mutagenicity	No biologically relevant genotoxic activity (CSR ZnO, 2010)
Carcinogenicity	No evidence for carcinogenicity activity (CSR ZnO, 2010)
Reproductive toxicity	No evidence for reproductive or developmental toxicity (CSR ZnO, 2010)
STOT – single exposure	No evidence for specific target organ toxicity (single exposure), (CSR ZnO, 2010)
STOT – repeated exposure	No evidence for specific target organ toxicity (repeated exposure), (CSR ZnO, 2010)
Aspiration hazard	Not available

Jojoba oil

Toxicity	LD _{Lo} (rat) 21.5 ml/kg (ChemIDplus Lite)
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SECTION 12: Ecological information**12.1 Toxicity**

No data available on Zinc oxide dispersed in Jojoba oil.

Information on individual substances in the mixture**Zinc oxide**

Fish	Oncorhynchus mukiss (rainbow trout): LC ₅₀ 1.1 mg/l in 4 days (ECOTOX)
Daphnia	Daphnia magna (water flea): EC ₅₀ >2.0 mg/l in 2 days (ECOTOX)
Algae	Pseudokirchneriella subcapitata (green algae): IC ₅₀ 0.63 mg/l in 3 days (ECOTOX)

No data available on Jojoba oil.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available







12.6 Other adverse effects

Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal consideration

Dispose of contents/containers as hazardous waste in accordance to local regulations.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA/ICAO
14.1 UN Number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	Environmentally Hazardous Substance, Liquid, NOS (Contains Zinc Oxide)	Environmentally Hazardous Substance, Liquid, NOS (Contains Zinc Oxide)	Environmentally Hazardous Substance, Liquid, NOS (Contains Zinc Oxide)
14.3 Transport hazard class(es)	 	 	 
14.4 Packing group	III	III	III
14.5 Environmental Hazards	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
14.6 Special precautions for user	Avoid release to the environment Collect spillage Dispose of contents / container as hazardous waste	Avoid release to the environment Collect spillage Dispose of contents / container as hazardous waste	Avoid release to the environment Collect spillage Dispose of contents / container as hazardous waste
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

14.8 Road and Rail Exemptions

Not classified as dangerous goods when transported by road or rail in Australia or the United States pursuant to Australian Special Provision AU01 and the United States Code of Federal Regulations 49 CFR 171.4 paragraph (c).

14.9 Small Quantity Exemptions

Not classified as dangerous goods under IATA Special Provision A197 when transported in single or combination packaging's containing a net quantity per single or inner packaging of 5L or less for liquids, or having a net mass of 5kg or less for solids. Are not subject to any other provisions of these regulations provided the packaging's meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

German WGK-category Zinc oxide is classified as WGK 2 (hazard to waters)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture.

SECTION 16: Other information**Full text of H-statements**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Full text of R-phrases

R50/53 Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.