

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

**1.1 Product identifier**

Product Code                      ZinClear® XP47 AB+TES  
Product Description                Zinc oxide dispersed in C12-15 alkyl benzoate

**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, Unit 2/81 Shettleston Street, Rocklea QLD 4106  
Australia  
Responsible Department        Quality Assurance, and Sales: sales@antaria.com

**1.4 Emergency telephone number (24 hour)**

+61 7 3726 2030

**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

**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.

**2.3 Other hazards**

None known.

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

Ingredient	Weight %	CAS	EINECS	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Zinc oxide	44-50	1314-13-2	215-222-5	H410

C12-15 alkyl benzoate	30-60	68411-27-8	270-112-4	-
Triethoxycaprylylsilane (TES)	1-5	2493-75-1	220-941-2	-
Polyhydroxystearic acid	2-8	27924-99-8	500-140-7	-

## 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.

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## 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Exposure limits are not available for Zinc oxide dispersed in C12–15 alkyl benzoate. 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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Off white to pale yellow/yellowish green
Form	Liquid
Odour	Mild odour

Odour threshold	No information available
pH	No information available
Melting point /freezing point	Not applicable
Initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower flammability limits	No information available
Vapour pressure	No information available
Vapour density	No information available
Specific gravity	TBD
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

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## 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.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

No data available on Zinc oxide dispersed in C12-15 alkyl benzoate.

#### Information on individual substances in the mixture

##### Zinc oxide

Acute toxicity, oral	LD <sub>50</sub> (mouse) 15,000 mg/kg (Löser, 1972)
	LD <sub>50</sub> (rat) >5,000 mg/kg (Löser, 1977)
Acute toxicity, inhalation	LC <sub>50</sub> (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

**C12-15 alkyl benzoate**

Acute toxicity - oral	LD <sub>50</sub> (rat) >2,000 mg/kg (Brown, 1986)
Skin Irritation	No irritation (Brown, 1986)
Eye Irritant	No irritation (Brown, 1986)
Sensitisation	Did not cause sensitisation (Brown, 1986)

**SECTION 12: Ecological information****12.1 Toxicity**

No data available on Zinc oxide dispersed in C12-15 alkyl benzoate.

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

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

No data available on C12-15 alkyl benzoate.

**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

<b>14.1 UN Number</b>	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, NOS (Contains Zinc Oxide)	Environmentally Hazardous Substance, Liquid, NOS (Contains Zinc Oxide)	Environmentally Hazardous Substance, Liquid, NOS (Contains Zinc Oxide)
<b>14.3 Transport hazard class(es)</b>			
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental Hazards</b>	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
<b>14.6 Special precautions for user</b>	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
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	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.

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