



Titanium Dioxide

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF MATERIAL AND SUPPLIER

1.1 Product Name:	Titanium Dioxide
1.2 Product Code:	RMSCTITAMICR
1.3 Product Category:	Minerals
1.4 Botanical Name:	Not Applicable
1.5 Synonyms:	None Identified
1.6 Recommended Product Use:	Raw Materials & Cosmetic Ingredients
1.7 Company:	NEW DIRECTIONS AUSTRALIA PTY LTD
1.8 Address:	47 Carrington Road, Marrickville, NSW 2204, AUSTRALIA
1.9 Telephone Number:	+612 8577 5999
1.10 Fax Number:	+612 8577 5977
1.11 Email:	nda@newdirections.com.au
1.12 Web Site:	www.newdirections.com.au
1.13 ABN:	78 052 973 743
1.14 Emergency Contact:	Poison Information Centre Sydney [T] 131126

SECTION 2 Hazard Classification

Classification according to GHS7 and ADG Code 7

Not classified as Hazardous according to criteria Worksafe Australia, GHS7 and ADG Code 7

NON-HAZARDOUS SUBSTANCE - **NON-DANGEROUS GOODS**

Label Elements

Pictogram Code

Not Applicable

Signal Word

No Signal Word Required

Hazard Codes

Not Assigned

Precautionary Codes
Prevention

Not Assigned

Response

Not Assigned

Storage

Not Assigned

Disposal

P501 Dispose of contents/container to an approved waste disposal plant

SECTION 3 - Hazardous Ingredients

3 Ingredients

Component Entity	CAS Number	EINICS Number	Proportions [%w/w]
Titanium Dioxide [CI 77891]	13463-67-7	236-675-5	100



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SECTION 4 - First Aid

4.1 Eye Contact	Flush immediately with clean water for at least 15 minutes. Ensure irrigation under eyelids. Do not try to remove contact lenses unless trained. Contact a physician immediately
4.2 Skin Contact	If possible, remove any contaminated clothing and footwear. Clean before re-use. Immediately wash affected areas thoroughly with water for at least 15 minutes, then flush with water for at least 5 minutes. If reddening persists, or if open sores or blisters develop, contact a physician/emergency services immediately
4.3 Inhalation	Remove from the exposure to fresh air. If breathing has stopped, ensure airway is clear of obstruction, administer artificial respiration and oxygen if available. If breathing is difficult, administer oxygen. Contact a physician immediately, symptoms may be delayed.
4.4 Ingestion	Do Not Induce vomiting. Wash out mouth with water. Never give liquid to a person showing signs of being sleepy or with reduced awareness. Contact a physician or local poison control centre immediately. If vomiting occurs, lean patient forward or place on left side [head down position, if possible] to maintain open airway and prevent aspiration.
4.5 For Advice	Contact a physician or local poison control centre immediately. Australia Poison 131126
4.6 Advice to Doctor	Treat symptomatically. Note the nature of this product

SECTION 5 - Fire Fighting

5.1 Extinguishing Media	Water Spray; Carbon Dioxide; Dry Chemical; Universal-Type Foam; As allowable for the surrounding materials.
5.2 Unsuitable Extinguishing Media	None established
5.3 Unusual Firefighting Hazards	None established
5.4 Special Procedures	Determine the need to evacuate or isolate the area according to your local emergency plan.
5.5 Protective Equipment	Self-contained breathing apparatus and protective clothing should be worn when fighting fire involving essential oils or chemicals
5.6 Combustion Products	Not Applicable
5.7 Contact Point	Dial 000 Emergency in case of fire [In Australia], or local Emergency Authority [Out of Australia]

SECTION 6 - Accidental Release Measures

6.1 Personal Precautions	Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to Section 8
6.2 Safety Precautions	Eliminate ALL ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan
6.3 Environmental Precautions	Keep away from drains, surface and ground water. Report spills to the appropriate authorities if required
6.4 Methods For Cleaning Up	Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Wipe small spills with cloth. Clean with hot water and detergent. Refer to Section 13 for disposal procedures.

SECTION 7 - Handling and Storage

7.1 Handling	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use. No smoking
7.2 Storage	Keep in original container. Containers should be kept closed in order to minimise contamination. Store in a cool, dry, well ventilated place protected from light. Keep from extreme heat and away from ALL sources of ignition. Make sure the material does not come into contact with substances listed as "Materials to Avoid", refer to Section 10. Chemically Compatible Containers include: HDPE, PP, PPCO, Stainless Steel, Aluminium, Amber Glass, and Epoxy Phenolic lined Steel Drums. If repacking check compatibility using independent data source.
7.3 Unsuitable Packaging Materials	None established
7.4 Special Procedures	None established



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SECTION 8 - Exposure Control/Personal Protection

8.1 Exposure Limits

For Mixture

NOHSC TWA
Not AssignedNOHSC STEL
Not AssignedOther
Not Assigned

Component Entity	NOHSC TWA	NOHSC STEL	WES OTHER
Titanium Dioxide [CI 77891]	10 mg/m3	Not Available	Not Available

8.2 Respiratory Protection

Use NOHSC approved respirator in confined areas or if ventilation is inadequate. Respiratory equipment AS/NZS1715

8.3 Ventilation Protection

Ensure adequate ventilation to keep exposure levels to a minimum. Local exhaust meeting ACGIH criteria is required. General exhaust is recommended

8.4 Eye Protection

Using goggles or face shield is recommended. Industrial eye protection AS1336 and AS/NZS1337

8.5 Protective Gloves

Using chemical resistant gloves is recommended. Protective Gloves AS2161

8.6 Protective Clothing

Using chemical resistant clothing is recommended. Industrial Clothing AS2919

8.7 Protective Equipment

An eye wash fountain and/or safety shower should be available in the work area

8.8 Special Engineering Controls

None established

8.9 Other Personal Protection

Occupational Protective Footwear AS/NZS2210

8.1 Note

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require additional precautions

SECTION 9 - Physical and Chemical Properties

9.1 Appearance:	White Powder
9.2 Odour:	Characteristic.
9.3 Specific Gravity:	Not available.
9.4 Refractive Index:	Not available.
9.5 Optical Rotation:	Not available.
9.6 pH:	Not available.
9.7 Solubility:	Not available.
9.8 Solubility in Water:	Not available.
9.9 Flash Point:	Not applicable.

9.1 Flammability Limits [as % v/v in Air]

Lower Explosion Limit: Not applicable.

Upper Explosion Limit: Not applicable.

9.11 Autoignition Temperature: Not applicable.

9.12 Melting Point: Not available.

9.13 Boiling Range: Not available.

9.14 Vapour Pressure: Not available.

9.15 Vapour Density: Not available.

9.16 Viscosity: Not available.

SECTION 10 - Stability and Reactivity

10.1 Stability	Chemically stable, material
10.2 Conditions to Avoid	Avoid exposure to Heat sources
10.3 Materials to Avoid	Strong Acids, Strong Alkalis, and oxidizing agents
10.4 Flammability	Not applicable.
10.5 Hazardous Polymerization	Will not occur
10.6 Hazardous Combustion or Decomposition Products	If involved in fire - Carbon monoxide and unidentified organic compounds may be formed during combustion

SECTION 11 - Toxicological Information

11.1 Health Hazards

Estimate for the mixture by Rat data

Acute Toxicity	Oral mg/kg	Not Available
	Dermal mg/kg	Not Available
	Inhalation mg/L/4H	Not Available



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Estimate for the mixture by ALL Animal data

Acute Toxicity	Oral mg/kg	Not Available
	Dermal mg/kg	Not Available
	Inhalation mg/L/4H	Not Available

ALL TOXICITY DATA BASED ON EXISTING LITERATURE

Skin corrosion/irritation	No GHS Hazards Identified
Serious eye damage/irritation	No GHS Hazards Identified
Respiratory or skin sensitisation	No GHS Hazards Identified
Germ cell mutagenicity	No GHS Hazards Identified
Carcinogenic Effects	No GHS Hazards Identified
Reproductive toxicity	No GHS Hazards Identified
Specific Target Organ Toxicity (STOT) - single exposure	No GHS Hazards Identified
Specific Target Organ Toxicity (STOT) - repeat exposure	No GHS Hazards Identified
Aspiration hazard	No GHS Hazards Identified

11.2 Acute Toxicity

Component Name	LD50 [Oral]	LD50 [Dermal]	LC50 [Inhalation]
Titanium Dioxide [CI 77891]	Not Available	Not Available	Not Available

11.3 Short Term Toxicity	No GHS Hazards Identified
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11.4 Long Term Toxicity	No GHS Hazards Identified
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11.5 Human Exposure Tests	No GHS Hazards Identified
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11.6 SCCNFP Allergens Annex III - Cosmetic Directive 2003/15/EC [7th amendment]. Detection Limit 0.001%

Constituent	IFRA	EFFA	CAS Number	EINECS	RANGE
Amyl Cinnamal	YES	YES	122-40-7	204-541-5	Not Detected
Amylcinnamyl Alcohol	YES	YES	101-85-9	202-982-8	Not Detected
Anise Alcohol	YES	YES	105-13-5	203-273-6	Not Detected
Benzyl Alcohol	YES	YES	100-51-6	202-859-9	Not Detected
Benzyl Benzoate	YES	YES	120-51-4	204-402-9	Not Detected
Benzyl Cinnamate	YES	YES	103-41-3	203-109-3	Not Detected
Benzyl Salicylate	YES	YES	118-58-1	204-262-9	Not Detected
Cinnamal	YES	YES	104-55-2	203-213-9	Not Detected
Cinnamyl Alcohol	YES	YES	104-54-1	203-212-3	Not Detected
Citral	YES	YES	5392-40-5	226-394-6	Not Detected
Citronellol	YES	YES	106-22-9	203-375-0	Not Detected
Coumarin	YES	NO	91-64-5	202-086-7	Not Detected
Eugenol	YES	YES	97-53-0	202-589-1	Not Detected
Farnesol	YES	YES	4602-84-0	225-004-1	Not Detected
Geraniol	YES	YES	106-24-1	203-377-1	Not Detected
Hexyl Cinnamal	YES	YES	101-86-0	202-983-3	Not Detected
Hydroxycitronellal	YES	YES	107-75-5	203-518-7	Not Detected
Isoeugenol	YES	YES	97-54-1	202-590-7	Not Detected
Butylphenyl Methylpropional	YES	NO	80-54-6	201-289-8	Not Detected
d-Limonene	YES	YES	5989-27-5	227-813-5	Not Detected
Linalool	YES	YES	78-70-6	201-134-4	Not Detected



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Constituent	IFRA	EFFA	CAS Number	EINECS	RANGE
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde	YES	NO	31906-04-4	250-863-4	Not Detected
Methyl 2-Octynoate	YES	YES	111-12-6	203-836-6	Not Detected
alpha-Isomethyl Ionone	YES	YES	127-51-5	204-846-3	Not Detected
Everina Prunastri Extract [Oakmoss]	YES	NO	90028-68-5 9000-50-4 68917-10-2	289-861-3	Not Detected
Everina Furfuracea Extract [Tree moss]	YES	NO	90028-67-4 68648-41-9 68917-40-8	289-860-8	Not Detected

SECTION 12 - Ecological Information

12.1 Eco-toxicity	No GHS Hazards Identified. Avoid pollution to soil, rivers and ocean
12.2 Persistence & Degradability	None established
12.3 Mobility	None established
12.4 Bio-accumulative Potential	None established
12.5 Other Adverse Effects	None established

SECTION 13 - Disposal Considerations

13.1 Waste Material	Place material and/or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice
13.2 Contaminated Packaging	Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice
13.3 Note	Empty containers can have residues, gases and mists. Use proper Waste Disposal Methods & Procedures for Empties as well.

SECTION 14 - Transport Information

14.1 Transportation Road and Rail	Not Dangerous Goods according to criteria of the Australian Dangerous Goods Code for Transport by Road and Rail. No special transport required. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases], [nb this applies only when the capacity of individual container exceeds 500Lt], 2.3 [Toxic Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.
14.2 UN Number	Not Allocated
14.3 Proper Shipping Name	Not Regulated
14.4 Technical Shipping Name	Not Applicable
14.5 DG Class/Subsidiary Risk	Not Allocated
14.6 Label(s)	Not Allocated
14.7 Packaging Group	Not Allocated
14.8 Special Precautions	None Established
14.9 Hazchem Code	Not Allocated



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14.10 Maritime Transportation IMDG

IMDG Class	Not Allocated
Label(s)	Not Allocated
UN Number	Not Allocated
Packaging Group	Not Allocated
EMS Number	Not Allocated
Marine Pollutant	Not Allocated
Propper Shipping Name	Not Regulated
Technical Shipping Name	Not Applicable

14.11 Air Transportation ICAO-TI and IATA-DGR

ICAO/IATA Class	Not Allocated
Label(s)	Not Allocated
UN Number	Not Allocated
Packaging Group	Not Allocated
Propper Shipping Name	Not Regulated
Technical Shipping Name	Not Applicable

SECTION 15 - Regulatory Information

15.1 SUSMP Schedule:	Not Scheduled
15.2 SUSMP Name:	Not Allocated
15.3 Warning Statements:	Not Allocated
15.4 Safety Directions:	<p>1 Avoid contact with eyes.</p> <p>3 Wear eye protection when mixing or using.</p> <p>5 Wear protective gloves when mixing or using.</p> <p>6 Wash hands after use.</p> <p>8 Avoid breathing spray, mist / fumes.</p> <p>11 No smoking.</p> <p>15 Store under cover in a dry, clean, cool, well ventilated place away from sunlight.</p> <p>23 Keep away from heat, sparks and naked flames.</p> <p>25 Avoid contact with food.</p>
15.5 Standard Statements:	<p>A For advice, contact a Poisons Information Centre [Phone e.g. Australia 131126; New Zealand 0800 764 766] or a doctor at once.</p> <p>G3 If swallowed, do NOT induce vomiting.</p>

15.6 AICIS: This product's ingredients are either listed on the Australian Inventory or are approved by AICIS on a permit basis or are exempt from registration as natural materials.

15.7 International Agreements

Not Applicable:	Montreal Protocol (Ozone depleting substance)
Not Applicable:	The Stockholm Convention (Persistent Organic Pollutants)
Not Applicable:	The Rotterdam Convention (Prior Informed Consent)
Not Applicable:	Basel Convention (Hazardous Waste)
Not Applicable:	Internation Convention for the Prevention of Pollution from Ships (MARPOL)

SECTION 16 - Additional Information

16.1 Issue Date:	2 nd September 2022 First Issue according to Safe Work Australia GHS7 Code of Practice
16.2 Revision Date:	Not applicable



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16.3 Quality Declaration

At New Directions we firmly believe that Quality Control is of utmost importance and it is imperative that the most meticulous tests are carried out for every product in our range

Uncompromising quality is a responsibility, which we take seriously.

New Directions' commitment to quality is coordinated by our in-house Qualified Aromatherapist, Chief Chemist and Quality Control Chemist.

This product has been tested and it conforms to our High Standard Quality requirements.

The most rigorous processes are implemented to determine the purity and potency of sourced oils & raw materials.

By maintaining this intense level of Quality Control and Developing New Methods & Techniques, New Directions can ensure Superior Quality Products.

16.4 Data Sources

AICIS; Australian Code for the Transport of Dangerous Goods by Road & Rail; CosIng; Supplier Documentation; EFFA; HSIS; IATA Dangerous Goods Regulations; IFRA; IMDG Code; The International Cosmetic Ingredient Dictionary and Handbook; SUSMP; NZIoC; Safe Work Australia.

16.5 DISCLAIMER

This Safety Data Sheet was prepared according to the current: Safe Work Australia's Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals.

NDA Disclaimer: The information contained in this Safety Data Sheet is obtained from current and reliable sources. New Directions Australia Pty Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is thus, intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Australia Pty Ltd., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. New Directions Australia Pty Ltd expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by New Directions Australia Pty Ltd as to the fitness for any use. The liability of New Directions Australia Pty Ltd is limited to the value of the goods and does not include any consequential loss. New Directions Australia Pty Ltd shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Australia Pty Ltd shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

16.6 ACRONYMS

*	Denotes component is Certified Organic
<	less than
>	greater than
°C	degrees Celsius
ACCC	Australian Competition and Consumer Commission
ADG	Australian Dangerous Goods
AICIS	Australian Industrial Chemical Introduction Scheme
ACGIH	American Conference of Governmental Industrial Hygienists
AS	Australian Standard
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (Registry Number)
cm ³	cubic centimetres
COD	Chemical Oxygen Demand
CosIng	The European Commission database with information on Cosmetic Ingredients & Substances
DG	Dangerous Goods
EC	European Commission
EC50	EC stands for effective concentration. EC50 refers to the concentration of a toxicant which induces a response halfway between the baseline and maximum after a specified exposure time.
EFFA	European Flavour Association
EINECS	European Inventory of Existing Commercial Chemical Substances (Identifying Number)
EU	Europe / European Union
g	gram
GHS	The Globally Harmonized System of Classification and Labelling of Chemicals
GMO	Genetically modified organism



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Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
hr	Hour
HSIS	The Safe Work Australia Hazardous Substances Information System
HSNO	Hazardous Substances Approval Code
IATA	The International Air Transport Association
ICAO	The International Civil Aviation Organization
IFRA	The International Fragrance Association
IMDG	International Maritime Dangerous Goods
INCI	The International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
kg	kilogram
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. This is normally quoted in mg/kg body weight.
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. This is normally quoted in mg/kg body weight.
LDLo	LDLo stands for Lethal Dose Low, the minimum amount of a material which tests have shown will be lethal to a specified type of animal. This is normally quoted in mg/kg body weight.
Lt	Litre
Max.	maximum
mg	milligram
Min.	minimum
ml	millilitre
m³	cubic metre
mm	millimetre
mm Hg	millimetre of Mercury
N/A	Not Applicable
NIOSH	The National Institute for Occupational Safety and Health (USA)
NOHSC	National Occupational Health and Safety Commission (AUSTRALIA)
n.o.s.	Not otherwise specified
NZS	New Zealand Standard
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Co-operation and Development (Test Method number)
OSHA	The Occupational Safety and Health Administration (USA)
PEL	Permissible Exposure Limit
ppb	parts per billion
ppm	parts per million
RTECS	The Registry of Toxic Effects of Chemical Substances
SCCNFP	Scientific Committee on Cosmetic Products and Non-Food Products (EUROPE)
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
Subsp.	Subspecies
SUSMP	Standard for the Uniform Scheduling of Medicine & Poisons (AUSTRALIA)
TD	TD stands for Toxic Dose. TD is the amount of a material, given all at once, which causes the untoward symptoms in the majority of persons, or in the majority of a group of test animals. This is normally quoted in mg/kg body weight.
TGA	Therapeutic Goods Administration (AUSTRALIA)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UK	United Kingdom
UN	United Nations
USA	The United States of America
µg	microgram
µl	microlitre

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