

Safety Data Sheet

infosafe CS: 3.4.22

Page: 1 of 5

Infosafe No™ 1CHKR

RE-ISSUED by CHEMSUPP Issue Date :October 2021

Product Name TITANIUM DIOXIDE

Not classified as hazardous

1. Identification			
GHS Product Identifier	TITANIUM DIOXIDE		
Company Name	CHEMSUPPLY AUSTRAL	IA PTY LTD (ABN 19 0	008 264 211)
Address	38 - 50 Bedford St SA 5013 Australia	rreet GILLMAN	
Telephone/Fax Number	Tel: (08) 8440-200	00	
Emergency phone number	CHEMCALL 1800 127	′406 (Australia) / +	+64-4-917-9888 (International)
E-mail Address	www.chemsupply.com	1.au	
Recommended use of the chemical and restrictions on use	White pigment in p cosmetics, radioac ceramics, enamel f rods, catalyst, hi in electronics man	aints, paper, rubber tive decontaminatior frits, delustering sy .gh-temperature trans hufacturing, e.g., ca	r, plastics, etc.; opacifying agent, on of skin, floor coverings, glassware a ynthetic fibres, printing inks, welding sducers (single crystals), semiconducto capacitors and laboratory reagent.
Other Names	Name		Product Code
Other Information	Anatase Titanic anhydride Titanium (IV) oxid Titanium white Titania Titanic oxide Titanic acid anhyd C.I. 77891 C.I. Pigment white TITANIUM DIOXIDE A ChemSupply Austral for any use or pur before use or appl before use or appl upon ChemSupply Au	de dride e 6 R ia Pty Ltd does not pose. The user must ication intended pur ication is recommend stralia Pty Ltd with a to the suitability	TA025 warrant that this product is suitable ascertain the suitability of the produ upose. Preliminary testing of the produ ided. Any reliance or purported reliance h respect to any skill or judgement or of this product of any purpose is
	disclaimed. Except any statute as to purpose is hereby provisions of Part liability of ChemS supply of equivale acquiring equivale	to the extent prohi the merchantable qua excluded. This produ V, Division 2 of th Supply Australia Pty ent goods or payment ent goods.	ibited at law, any condition implied by ality of this product or fitness for an uct is not sold by description. Where t he Trade Practices Act apply, the Ltd is limited to the replacement of of the cost of replacing the goods or
2. Hazard Identifi	cation		
GHS classification of the substance/mixture	Not classified as Information System Not classified as Code (ADG).	hazardous according (HSIS), Safe Work dangerous goods acco	to the criteria of Hazardous Substance Australia. Fording to the Australian Dangerous Good
3. Composition/in	formation on ingredie	ents	
Ingredients	<u>Name</u> Titanium dioxide	<u>CAS</u> 13463-67-7	Proportion 100 %
4 First-aid measu	res		
Inhalation	Remove victim to f	resh air. Seek medi	ical advice if effects persist
Ingestion	Rinse mouth thorou product have been medical advice if	ighly with water imme removed. Give water symptoms persist.	mediately, repeat until all traces of to drink. DO NOT INDUCE VOMITING. Seek
Skin	Wash with plenty c	of soap and water. S	Seek medical advice if effects persist.
Print Date: 26/10/2021			CS: 3.4



Safety Data Sheet

Page: 2 of 5

Infosafe No™	1CHKR Issue Date :October 2021 RE-ISSUED by CHEMSUPP
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Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.
5. Fire-fighting m	easures
Hazards from Combustion Products	Titanium/titanium oxides.
Specific Methods	No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.
6. Accidental relea	ise measures
Spills & Disposal	Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
7. Handling and st	torage
Precautions for Safe Handling	Avoid ingestion and inhalation of vapours, or dusts. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Keep container tightly closed. Use with adequate ventilation. It should always be handled in an efficient fume hood or equivalent system. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Protect against physical damage.
Conditions for safe storage, including any incompatibilities	Store in a tightly closed container, in a cool, dry, ventilated area away from incompatible substances. Keep well closed and protected from direct sunlight and moisture. Protect against physical damage. Store away from heat and all sources of ignition. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Storage	Store at room temperature (15 to 25 $^\circ ext{C}$ recommended).
Unsuitable Materials	Metals such as aluminum, calcium, magnesium, potassium, sodium, and zinc.
8. Exposure control	ols/personal protection
Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Respiratory	where ventriation is not adequate, respiratory protection may be required.
Protection	Avoid breathing dust, vapours or mists. Respiratory protection should comply



Page: 3 of 5

Infosafe No™	1CHKR	Issue Dat	e :October	2021	RE-ISSUED by CHEMS	UPP
Product Name	Product Name TITANIUM DIOXIDE					
		Not class:	lfied as ha	zardous		
Eye Protection Hand Protection	with AS 1716 - with AS 1715 - Devices. Filter event of emerge pressure, full- required, insti selection, fit The use of a fa protection as a be selected and Wear gloves of protective glov appropriate glo can include met appropriate ris	Respiratory Selection, M capacity as ncy or plans facepiece S tute a comp testing, tra- ce shield, ppropriate. used in acc impervious n es - Select ve type will hods of han k assessmen	Protective i Jse and Main nd respirato ned entry in CBA should be lete respiration chemical goge Must compli- cordance with naterial cont ion, use and l vary accord dling, and entry ts. Avoid s	Devices and h tenance of Re type depend to unknown co e used. If re tenance and t gles or safet with Austra h AS 1336. forming to As maintenance ding to indivi- ngineering co	be selected in accordan espiratory Protective ds on exposure levels. Incentrations a positive espiratory protection i con program including inspection. By glasses with side shalian Standards AS 1337 S/NZS 2161: Occupationa Final choice of vidual circumstances. To ontrols as determined by then removing gloves fr	In e s ield and l his y om
Personal Protective	waste. Personal protec	tive equipm	ent should n	ot solely be	relied upon to control	risk
Equipment	and should only do not eliminat protective equi or other approv	be used whe e or suffic pment can be ed standard	en all other iently minim e obtained f s.	reasonably p ise risk. Gu: rom Australia	oracticable control mea dance in selecting per an, Australian/New Zeal	sures sonal and
Body Protection	Clean imperviou chemicals shoul Chemicals.	s clothing a d comply wi	should be wo th AS 3765 C	rn. Clothing lothing for 1	for protection against Protection Against Haza	rdous
Hygiene Measures	Always wash han contaminated cl re-using.	ds before s othing and o	moking, eati other protec	ng or using t zive equipmen	che toilet. Wash at before storing or	

9. Physical and chemical properties

Form	Solid
Appearance	White powder.
Odour	Odourless.
Melting Point	1843 °C
Boiling Point	2900 °C
Solubility in Water	Insoluble.
Solubility in Organic Solvents	Insoluble in organic solvents.
Specific Gravity	>3.0
рН	3.5 - 4.5 (40 g/l, 20 °C); ~ 7 (aqueous suspension, 1 in 10).
Volatile Component	0 %vol @ 21 °C
Flammability	Non combustible material.
Molecular Weight	79.90
Oxidising Properties	Titanium dioxide, particularly in the anatase form, is a photocatalyst under ultraviolet light. The strong oxidative potential of the positive holes oxidizes water to create hydroxyl radicals. It can oxidize oxygen, volatile organic compounds, nitrogen oxides or organic materials directly.
Solubility in other solvents (kg/m3)	Soluble in hot concentrated sulfuric acid, hydrofluoric acid, alkali. Insoluble in hydrochloric acid, nitric acid, diluted sulfuric acid.
10. Stability and re	eactivity
Chemical Stability	Stable under ordinary conditions of use and storage.

Conditions to Avoid Dust generation and incompatible materials.

IncompatibleAcids, alkali metals and other reactive metals (aluminium, calcium, magnesium,
potassium, sodium, zinc, and lithium) + high temperature.

Print Date: 26/10/2021



Page: 4 of 5

Infosafe No™	1CHKR Issue Date :October 2021 RE-ISSUED by CHEMSUPP		
Product Name	TITANIUM DIOXIDE		
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Hazardous Decomposition Products	Titanium/titanium oxides.		
Possibility of hazardous reactions	Reactive with acids. Slightly reactive to reactive with metals. A violent or incandescent reaction with metals (aluminum, calcium, magnesium, potassium, sodium, zinc, and lithium) may occur at high temperatures. Reaction of titanium dioxide and lithium occurs around 200 °C with a flash of light; the temperature can reach 900 °C.		
Hazardous Polymerization	Will not occur.		
11. Toxicological l	nformation		
Ingestion	No hazard expected in normal industrial use. It is not absorbed following ingestion. Ingestion of large amounts may cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhoea or constipation, loss of appetite and pain. May cause ataxia (failure of muscular coordination), increased blood pressure, hallucinations, hypermotility, muscle contraction/spasticity, fatigue, psychosis, and tremors.		
Inhalation	Dust is mildly irritating to the respiratory tract and may cause temporary respiratory irritation of the mucous membranes at occupational exposure levels. May be harmful if inhaled. High concentrations of dust may cause coughing, mild, temporary irritation, airway symptoms and restrictive lung impairment.		
Skin	May cause mild irritation, redness and mechanical irritation (irritation from frictional action). It is believed not to be absorbed through intact skin. Low hazard for usual industrial handling.		
Eye	Dust may cause mechanical irritation, mild irritation and possible reddening.		
Respiratory sensitisation	Not classified based on available information.		
Germ cell	Not classified based on available information		
mutagenicity	Not classified based on available information.		
Carcinogenicity	Not classified based on available information.		
Toxicity	Not classified based on available information.		
STOT-single exposure	Not classified based on available information.		
STOT-repeated exposure	Not classified based on available information.		
Chronic Effects	Long-term exposure to high concentrations of dust may cause chronic rhinitis and chronic bronchitis (increased mucous flow in the nose and respiratory system). Prolonged or repeated exposure may cause lung irritation, chest pain and slight lung fibrosis (scarring of the lungs). Repeated or prolonged exposure to massive concentrations of dust may cause lung injury by blocking blood vessels and distorting the shape of airways. May cause impaired pulmonary function, resemblance of silicosis without any fibrosis, functional change in trachea or bronchi, chronic pulmonary oedema. Long-term inhalation of high concentrations of pigmentary (powdered) or ultrafine titanium dioxide may cause lung cancer, based on animal evidence.		
Serious eye damage/irritation Skin	Not classified based on available information.		
corrosion/irritation			

12. Ecological information

EcologicalNo ecological problems are to be expected when the product is handled and usedInformationwith due care and attention.



Page: 5 of 5

Infosafe No™ 1CHKR

Issue Date :October 2021 RE-ISSUED by CHEMSUPP

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13. Disposal considerations		
Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.	
14. Transport in	ıformation	
Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.	

15. Regulatory information

Regulatory Information	All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'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'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants
Contact Person/Point	In the Occupational Environment'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: 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.
Empirical Formula & Structural Formula	TiO2
	End Of MSDS

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