

Safety Data Sheet

Trade name: SODIUM TITANATE

Issued on: November the 7th, 2008

Revised on: Avgust the 31th, 2026

Version: 9

1. Identification of the substance/mixture and of the company/undertaking						
1.1.	Product identifier (Product registration number, nanoform, UFI):		Sodium Titanate			
1.2.	Relevant identified uses of the substance/mixture and uses advised against:		Pigment production, PROC1 Use in closed process, no likelihood of exposure, ERC7 Industrial use of sub-stances in closed systems, PC19 Intermediate			
1.3.	Details of the supplier of the safety data sheet (manufacturer, importer, only representative, downstream user or distributor):					
1.3.1.	Supplier name:		CINKARNA CELJE, d.d.			
1.3.2.	Supplier address and phone:		Kidričeva ulica 26, 3000 CELJE, SLOVENIJA, +386 3 427 60 00			
1.3.3.	E-Mail (competent person):		natasa.gotlin-korazija@cinkarna.si			
1.4.	Emergency phone number:		In case of health risk, consult your doctor. Additional information is available: During working hours from 7 a.m. to 3 p.m. +386 3 427 65 85 +386 3 427 60 00			
2. Hazards identification						
2.1.	Classification of substances or mixture:		Regulation (EC) No 1272/2008: Not classified			
2.2.	Label elements:		Regulation (EC) No 1272/2008: Not classified			
2.3.	Other hazards:		The substance does not meet the criteria for PBT or vPvB according to REACH Annex XIII. Based on available information, the substance is not identified as having endocrine disrupting properties.			
3. Composition/information on ingredients						
3.1.	Substances: /					
3.2.	Mixture:					
	Chemical name	CAS No. EC No. Index No.	REACH Registration No. Reference No.	% wt/vol/max. conc.	Classification according to Regulation (EC) No 1272/2008 (CLP)	SCL, M-factor, ATE
	Disodium titanate, Na ₂ TiO ₃ (as TiO ₂)	12034-34-3 234-802-9	01- 2119560604- 40-0001	9 wt% – 17 wt%	Not classified as hazardous according to Regulation (EC) No 1272/2008	Not hazardous substance.
4. First aid measures						
4.1.	Description of first aid measures:					
	Inhalation:		Remove contaminated clothing and footwear. Remove victim to fresh air, give oxygen if breathing is difficult and seek medical attention if symptoms persist			
	Skin contact:		Remove contaminated clothing, brush material off skin, wash affected area with water. Seek medical attention if symptoms persist.			
	Eyes/mycosis contact:		Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.			
	Ingestion:		Rinse mouth with water. Give water to drink if the exposed person is conscious. Do NOT induce vomiting. Seek medical advice if symptoms occur.			
4.2.	Most important symptoms and effects, acute and delayed:		Cause irritation.			

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4.3.	Indication of any immediate medical attention and special treatment needed:	In case of digestion, drink water and seek medical assistance.
5. Firefighting measures		
5.1.	Extinguishing media	Sodium Titanate is not flammable and non-explosive. Use suitable extinguishing agents for surrounding materials and type of fire.
	Appropriate media:	Sodium Titanate is not flammable and non-explosive. Use suitable extinguishing agents for surrounding materials and type of fire.
	Inappropriate media:	No data
5.2.	Specific hazards arising from the substance or mixture:	Fumes from fire are hazardous.
5.3.	Advice for firefighters:	Protective gloves, protective clothes or apron, watertight shoes or boots. Protective goggles or face shield. Use self – contained breathing apparatus.
6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	Evacuate area. Wear protective clothing, footwear and face shield or goggles within the hazardous area.
6.1.1.	For non-emergency personnel:	Remove unauthorized persons.
6.1.2.	For emergency responders:	See 8.2.2.
6.2.	Environmental precautions:	Prevent drainage into water bodies and sewers.
6.3.	Methods and material for containment and cleaning up:	
6.3.1.	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Impoundment embankment
6.3.2.	Appropriate cleaning procedures	
	Neutralization techniques:	Neutralise with lime
	Decontamination techniques:	Vacuum up spill Sodium Titanate or neutralise with lime and then mechanically collect into designated and appropriately marked vessels /containers.
	Absorbent materials:	Lime
	Cleaning techniques:	Mechanically collect into designated and appropriately marked vessels /containers.
	Vacuuming techniques:	Procedure is possible. Collect into designated and appropriately marked vessels/containers.
	Required equipment for retaining /cleaning:	Shovels and suitable packaging.
6.3.3.	Inappropriate cleaning or retaining techniques:	Rinsing into water or earth, sewage or watercourse.
6.4.	Reference to other sections:	See 8.2.2.
7. Handling and storage		
7.1.	Precautions for safe handling	
7.1.1.	Recommendations shall be specified to:	No specific requirements. Use personal protective equipment.
	Safe handling of substance or mixture:	Familiarize operators handling the Sodium Titanate with hazards, appropriate handling, personal protective equipment, and first aid measures in case of accidents, assistance, and environment protection.
	Prevent handling incompatible substances or mixtures:	
	Operations and conditions that may create new risks by altering the properties of the substance or mixture, and appropriate risk control measures:	No data
	Reduce the release of the substance or mixture to the environment:	Storage floor must be made of acid-resistant material.
7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands ...):	No smoking inside storage area, no food and beverage. Washing hands.

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7.2.	Conditions for safe storage, including any incompatibilities	
	Management of risk associated with:	
	- explosive atmospheres:	Not required.
	- corrosive substances:	Not important
	- incompatible substances or mixtures:	Store away from oxidizers.
	- evaporation substances:	Not important
	- potential ignition sources:	Not important
	How to control the effects of	
	- weather conditions:	Not important
	- ambient pressure:	Not important
	- temperature:	Not under 0°C
	- sunlight:	Not important
	- humidity:	Not important
	Securing integrity of substance or mixture by use of:	
	- stabilisers:	Not important
	- antioxidants:	Not important
	Other advice including:	
	- ventilation requirements;	Not important
	- specific designs for storage rooms or vessels (including retention walls and ventilation):	Not important
	- quantity limitations regarding storage conditions:	Not important
	- packaging compatibilities:	
7.3.	Specific end use(s):	See 1. 2.
8. Exposure control/ personal protection		
8.1.	Control parameters	
8.1.1.	- Occupational exposure limit values (MV):	No occupational exposure limits have been established.
	- Biological limit values (BAT):	No data
	DNEL:	Not data
	PNEC:	Not data
8.2.	Exposure control	See 5.,6.,7.,10.,11.,12. and 13. All must be permanently followed and controlled.
8.2.1.	Appropriate engineering controls:	
8.2.2.	Personal protective equipment:	Do not use damaged personal protective equipment.
	- respiratory protection:	Not needed during work. In case of fire see 5.3.
	- skin protection:	work clothes SIST EN ISO 13688, boots (SIST EN ISO 20345)
	- hand protection:	Acid-resistant gloves (SIST EN ISO 374-1), penetration time:> 60 minutes glove thickness: minimum 1.2 mm
	- eye/face protection:	Protective goggles that fit closely to the face, or face shield (SIST EN 166)
	- heat radiation protection:	Not important
	Other:	Not important
8.2.3.	Environmental exposure control:	See 5.,6.,7.,10.,11.,12. and 13. All must be permanently followed and controlled.
9. Physical and chemical properties		

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9.1.	Information on basic physical and chemical properties:	
	- Physical state:	Suspension
	- Colour	White
	- Odor:	Odourless
	pH:	3,5 – 4,5
	Melting/freezing point:	Under 0°C
	Boiling point or initial boiling point and boiling range	105 – 110°C
	Flash point:	Not flammable
	Auto-ignition temperature:	Not flammable
	Flammability (solid, gas):	Not flammable
	Lower and upper explosion limit:	Not flammable
	Vapor pressure:	Not flammable
	Density and/or relative density:	1100 g/L (25°C)
	Solubility:	Insoluble in water
	Partition coefficient: n-octanol-water:	Data not available.
	Decomposition temperature:	Data not available.
	Kinematic viscosity:	App. 100 mPas
	Relative vapour density:	No data
9.2.	Other information:	none
9.2.1	Information on physical hazard classes	
	- Explosives:	Not flammable
	- Flammable gases:	Not flammable
	- Aerosols:	Not flammable
	- Oxidising gases:	Not flammable
	- Flammable liquids:	Not flammable
	- Flammable solids:	No
	- Corrosive to metals:	None
9.2.2	Other safety-related parameters:	
10. Stability and reactivity		
10.1.	Reactivity:	Non - reactive.
10.2.	Chemical stability:	Stable and non - reactive under normal conditions of use and transport.
10.3.	Possibility of hazardous reactions:	Not known
10.4.	Conditions to avoid:	Not known
10.5.	Incompatible materials:	Oxidizers -see 7.2.2.
10.6.	Hazardous decomposition products:	Na ₂ O
11. Toxicological data		
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	- Acute toxicity:	acute toxicity (oral) >20000 mg / kg (rat)
	- Skin corrosion/irritation:	Not known
	- Serious eye damage/irritation:	Not known

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	- Respiratory or skin sensitisation:	Not known
	- Germ cell mutagenicity:	Not classified as mutagenic.
	- Carcinogenicity:	Not classified as carcinogenic.
	- Reproductive toxicity:	Not known
	- STOT – single exposure:	Not known
	- STOT – repeated exposure:	Not known
	- Aspiration hazard:	Not known
11.2.	Information on other hazards	Not known
	- Endocrine disrupting properties:	The substance is not identified as having endocrine disrupting properties for human health.
12. Ecological information		
12.1.	Toxicity:	not toxic
12.2.	Persistence and degradability:	Product is practically insoluble in water and conventional solvents
12.3.	Bioaccumulative potential:	Not known
12.4.	Mobility in soil:	Liquid – suspension, seep into the ground
12.5.	Results of PBT and vPvB assessment:	Not classified as PBT or vPvB
12.6.	Endocrine disrupting properties:	The substance is not identified as having endocrine disrupting properties for the environment.
12.7.	Other adverse effects:	Not known
13. Disposal considerations		
13.1.	Waste treatment methods:	Clean residues with water or dispose of them by incineration using suitable and approved equipment. Dispose of contents/container in accordance with local, national and European waste regulations. Waste code shall be assigned by the waste producer according to the actual use of the product.
14. Transport information		
	ADR, RID, AND, IMDG, ICAO-TI/IATA-DGR	
14.1.	UN number or ID number:	Product not classified as dangerous according to transport legislation.
14.2.	UN proper shipping name:	Not required.
14.3.	Transport hazard class(es):	Not required., not ADR
14.4.	Packaging group:	Not required.
14.5.	Environmental hazards:	Not required.
14.6.	Special precautions for user:	Not required.
14.7.	Maritime transport in bulk according to IMO instruments:	Not required.
15. Regulatory information		
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture:	This safety data sheet has been prepared in accordance with Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878. Classification, labelling and packaging have been carried out in accordance with Regulation (EC) No 1272/2008 (CLP), as amended. Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Directive 2008/98/EC on waste. European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), where applicable.
15.2.	Chemical safety assessment:	Yes.
16. Other information		

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	Changes made in this revised edition:	Safety data sheet is amended in all sections in order to harmonize with applicable legislation.
	Full text of all relevant hazard statements and precautionary statements referred to in this safety data sheet, where not already provided in full in Sections 2 to 15.	See 2.2.
	For mixtures, indicate which method for evaluating information, as referred to in Article 9 of Regulation (EC) No 1272/2008, was used for classification.	Calculation method.
	Personnel training:	In accordance with the law on safety and health at work.
	Key literature references and data sources:	Safety data sheets Regulations REACH and CLP Registrant: CINKARNA CELJE, D.D. CELJE SLOVENIJA
	Key or legend to abbreviation and acronyms used in the safety data sheet:	PBT – persistent, bio accumulative and toxic vPvB – very persistent and very bio accumulative STOT – specific target organ toxicity DNEL – derived no effect levels PNEC – predicted no effect concentration ADR – European agreement concerning the international carriage of dangerous goods by road RID – International rule for transport of dangerous substances by railway ADN – European agreement concerning the international carriage of dangerous goods by inland waterways IMDG – International maritime dangerous goods code ICAO-TI – Technical instructions for the safe transport of dangerous goods by air IATA – International air transport association
The information provided in this Safety Data Sheet is based on our knowledge of the product at the time of its preparation. If the customer does not use the product in accordance with the proposed or recommended instructions, the customer is responsible for any consequences arising from such use. The user is responsible for using the product in accordance with the instructions and for ensuring compliance with all applicable legislation and regulations.		