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Reviewed on 04/25/2024

Product identifier Trade name: KRONOS Titanium Dioxide (non-pigmentary) Product Codes KRONOS 1020; KRONOS 3025 CAS Number: 13463-67-7 EC number: 236-675-5 Relevant identified uses of the substance or mixture Additive for application in Glass, vitreous enamels, ceramic products Details of the supplier of the safety data sheet Manufacturer/Supplier: KRONOS (US), Inc. 5430 LBJ Freeway, Suite 1700 Dallas, Tx 75240 +1 (972) 233-1700 Emergency telephone number: CHEMTREC: +1-800-424-9300 for transportation emergencies onl (U.S.) KRONOS: +1-800-866-5600 for other product information (8:00 a - 5:00 pm, central time U.S.) Hazard(s) identification The substance is not classified, according to the Globally Harmonized System (GHS). Label elements GHS label elements Signal word Not applicable Not applicable Signal word Not applicable Mazard statements Not applicable Other hazards No further relevant information available. Composition/information on ingredients CAS: 13463-67-7 Titanium dioxide CAS: 0. Description: CAS: 13463-67-7 Titanium dioxide			
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rade name: KRONOS Titanium Dio	xide (non-pigmentary)	
		(Contd. of page 1
After eye contact	Rinse opened eye for several minutes un If symptoms persist consult doctor.	der running water.
After swallowing	No special measures required.	
Most important symptoms and effects, both acute and delayed	No further relevant information available.	
Indication of any immediate medical attention and special treatment needed	No further relevant information available.	
5 Fire-fighting measures		
Extinguishing media Suitable extinguishing agents	Use fire fighting measures that suit the e The product is not flammable.	nvironment.
Special hazards arising from the substance or mixture	None	
Advice for firefighters Protective equipment:	Use protective measures that suit the haz	zard conditions.
6 Accidental release measures		
Personal precautions, protective equipment and emergency procedures	Not required.	
Environmental precautions:	No special measures required.	
Methods and material for containment and cleaning up:	Collect mechanically. Avoid formation of dust.	
Reference to other sections	See Section 8 for information on persona See Section 13 for disposal information.	al protective equipment.
7 Handling and storage		
Handling Precautions for safe handling Information about protection against explosions and fires:	Provide vacuum dust collection if dust is No special measures required. The product is not flammable	formed. (Contd. on page 3



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Trade name: KRONOS Titanium Dio	xide (non-pigmentary)	
		(Contd. of page 2)
Conditions for safe storage, incl	uding any incompatibilities	
Requirements to be met by		
storerooms and receptacles:	No special requirements.	
Information about storage in one common storage facility:	e Not required.	
Further information about	Not required.	
storage conditions:	Store in dry conditions.	
8 Exposure controls/personal prot	ection	
Additional information about		
design of technical systems:	No further data; see Section 7.	
Control parameters		
	at require monitoring at the workpla	ace:
CAS: 13463-67-7 Titanium dioxid	e	
ACGIH - TLV Long-term value: 10 respirable fraction		
OSHA - PEL Long-term value: 1 *total dust, 8 hr TW		
Exposure controls		
Personal protective equipment		
General protective and hygienic		
measures	The usual precautionary measures be followed.	s for handling chemicals should
	Titanium dioxide pigments are not powders can absorb moisture and the skin during prolonged exposu avoided by wearing suitable prote	d natural oil from the surface of re. Prolonged exposure should be
Breathing equipment:	If workplace exposure limits are exposure limits a	
Protection of hands:	Check protective gloves prior to e Preventive skin protection by use recommended.	
Material of gloves:	The selection of suitable gloves de characteristics of all substances to of quality, which may vary from ma product is used in a preparation of resistance of the glove material ca and has therefore to be checked p	o be handled and on further marks anufacturer to manufacturer. If the f several substances, the annot be calculated in advance
Eye protection:	Safety glasses	
	Jaiety ylasses	(Contd on page 4

(Contd. on page 4)



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Trade name: KRONOS Titanium Di	ioxide (non-pigmentary)	
		(Contd. of page 3)
Body protection:	Protective work clothing.	
9 Physical and chemical properti	ies	
Information on basic physical a		
General Information Appearance:	and chemical properties	
Form:	Powder	
Color:	White	
Odor:	Odorless	
Odor threshold:	Not relevant	
pH-value (100 g/l) at 20°C (68°F	⁻): 5 - 8	
Melting point/Melting range:	>1800°C (>3,272°F)	
Boiling point/Boiling range:	Not determined	
Flash point:	Not applicable	
Flammability (solid, gaseous):	Product is not flammable.	
Auto igniting:	Not applicable	
Danger of explosion:	Product is not explosive.	
Density:	20°C Anatase 3,9 g/cm ³ Rutile 4,2 g/cm ³	(30 lbs/ U.S. gal.) ³ (35 lbs/U.S. gal.)
Bulk density at 20°C (68°F): Evaporation rate	350 - 900 kg/m³ Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol	/water): Not applicable	
Viscosity:		
dynamic:	Not applicable.	
Other information		
	No further relevant information a	voilabla
		ימוומטוכ.
10 Stability and reactivity		
Reactivity	The substance is stable under no	ormal use conditions. (Contd. on page 5)



Version 8.00 Reviewed on 04/25/2024 Printing date 04/25/2024 Trade name: KRONOS Titanium Dioxide (non-pigmentary) (Contd. of page 4) **Chemical stability** Thermal decomposition / conditions to be avoided: No decomposition under normal use conditions. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further data; see Section 7. Incompatible materials: No further data; see Section 7. Hazardous decomposition No dangerous decomposition products known. products: 11 Toxicological information Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: CAS: 13463-67-7 Titanium dioxide Oral LD50 > 5,000 mg/kg (rat) (OECD 425) Dermal LD50 > 5,000 mg/kg (rabbit) Inhalative LC50/4h > 6.8 mg/l (rat) **Primary irritant effect:** on the skin: No irritant effect. **OECD 404:** No irritant effect on the eye: **OECD 405:** No irritant effect Like any foreign body, particles (dust) can cause mechanical irritation. Sensitization: No sensitizing effects known. **OECD 406, OECD 429** No sensitizing effects. Subacute to chronic toxicity: CAS: 13463-67-7 Titanium dioxide Oral NOAEL 3,500 mg/kg/d (rat) (90 d) Dermal NOAEL mg/kg/d no relevant data available Inhalative NOAEC 10 mg/m³ (rat) (90 d) Additional toxicological information: **Titanium Dioxide** On February 18, 2020, the European Union (EU) published the delegated regulation classifying certain powder titanium dioxide (TiO2) as a suspected carcinogen (Category 2) via inhalation under (Contd. on page 6)

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rade name: KRONOS Titanium Dioxide (non-pigmentary)		
	labels be placed on certain TiO2 powder mixtures containing TiO2	I mixtures. Classification October 1, 2021, mandating hazard powder products and certain 2 sold into the EU market. based on new science but instead I animal test data. Other studies barate epidemiologic studies of D2-specific links to cancer. ARC as possibly carcinogenic to lation (not ingestion). It has not
Carcinogenic categories	/ for Research on Cancer)	
: 2B		
NTP (National Toxicology	Program)	
Substance is not listed. OSHA-Ca (Occupational Sa	afety & Health Administration)	
Substance is not listed.		
2 Ecological information		
Toxicity		
loxicity		
Toxicity to fish		
CAS: 13463-67-7 Titanium	dioxide	
LC50 > 10,000 mg/l (Sheep		
\	03 (acute toxicity for fish))	
> 1,000 mg/l (Pimeph		Fich)
(Static, EPA-040/9-80	-006, Acute Toxicity Test for Freshwater	гізну
Toxicity to Daphnia and ot	her aquatic invertebrates	
CAS: 13463-67-7 Titanium	dioxide	
LC50 > 10,000 mg/l (Acartia (ISO 14669 (1999); IS		
> 1,000 mg/l (Daphnia (static, OECD 202 (da	a magna) aphnia acute immobilisation test))	
Toxicity to algae and aqua	tic plants	
CAS: 13463-67-7 Titanium		
EC50 > 100 mg/l (Pseudoki	rchneriella subcapitata)	
	eshwater alga and cyanobacteria, growt	h inhibition test))
> 10,000 mg/l (Skelet	onema costatum)	
(ISO 10253)		(Contd on norro 7)
		(Contd. on page 7)



Version 8.00 Reviewed on 04/25/2024 Printing date 04/25/2024 Trade name: KRONOS Titanium Dioxide (non-pigmentary) (Contd. of page 6) Toxicity to sediment organisms CAS: 13463-67-7 Titanium dioxide NOEC ≥ 100,000 mg/kg dw (Hyalella azteca) (semi-static, ASTM 1706) Persistence and degradability Not relevant for inorganic substances. **Bioaccumulative potential** Does not accumulate in organisms Mobility in soil The substance is immobile in soil. No further relevant information available. Other adverse effects 13 Disposal considerations Waste treatment methods **Recommendation:** Material is not a hazardous waste. Disposal must be made according to all federal, state, and local (municipal) regulations. Uncleaned packagings: **Recommendation:** Disposal must be made according to official regulations. 14 Transport information **UN-Number** DOT, ADR/RID/ADN, ADN, IMDG, IATA Not applicable UN proper shipping name ADR/RID/ADN, ADN, IMDG, IATA Not applicable Transport hazard class(es) DOT, ADR/RID/ADN, ADN, IMDG, IATA Class Not applicable **Packing group** DOT, ADR/RID/ADN, IMDG, IATA Not applicable **Environmental hazards** Not applicable. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Not dangerous according to the above specifications. **15 Regulatory information** Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Section 355 (Extremely hazardous substances):

Substance is not listed

(Contd. on page 8)

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Printing date 04/25/2024 Trade name: KRONOS Titanium Dioxide (non-pigmentary) (Contd. of page 7) Section 313 (Specific toxic chemical listings): Substance is not listed Section 311 (TIER 1 notification) Substance is not listed. TSCA and Canada DSL Status: : ACTIVE Hazardous Air Pollutants Substance is not listed. **CERLCA/SUPERFUND (40 CFR** 117, 302) Substance is not listed **OCCUPATIONAL SAFETY AND** This product is a "hazardous chemical" under the OSHA Hazard HEALTH ACT (OSHA) **Communication Standard.** New Jersey Right-to-Know List: Substance is listed. New Jersey Special Hazardous Substance List: Substance is not listed. Pennsylvania Right-to-Know List: Substance is listed. Pennsylvania Special Hazardous Substance List: Substance is not listed. WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) Not a controlled product **Carcinogenic categories** EPA (Environmental Protection Agency) Substance is not listed. TLV (Threshold Limit Value Notation established by ACGIH) : A4 Not classifiable as human carcinogen 16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Contact: KRONOS (US), Inc. 5430 LBJ Freeway, Suite 1700 Dallas, Tx 75240 e-mail: SDS-NA@kronosww.com Date of preparation / last

Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods

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	(Contd. of page
	DOT: US Department of Transportation
	IATA: International Air Transport Association
	EINECS: European Inventory of Existing Commercial Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent
	OSHA: Occupational Safety & Health
	TLV: Threshold Limit Value
	PEL: Permissible Exposure Limit
	REL: Recommended Exposure Limit
* Data compared to the p	previous
version altered.	Conformed to U.S. OSHA HCS 2012