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SECTION 1: Identification of th	e substance/mixture and of the company/undertaking			
1.1 Product identifier Trade name:	<u>KRONOS 9900</u> <u>Digital White</u> Titanium dioxide pigment concentrate			
EU REACH Registration number:	All components of the product are registered or exempt from registration.			
1.2 Relevant identified uses of Identified uses of the substanc	the substance or mixture and uses advised against			
or mixture Uses advised against	Production of coatings, printing inks, inks None			
1.3 Details of the supplier of th	1.3 Details of the supplier of the safety data sheet			
Manufacturer/Supplier:	KRONOS INTERNATIONAL, Inc. Peschstrasse 5 51373 Leverkusen, Germany Tel.: INT +49 214 356-0			
1.4 EMERGENCY TELEPHONE NUMBER:	KRONOS INTERNATIONAL, Inc. (Germany) Tel.: INT + 49 214 356-4444			
SECTION 2: Hazards identificat	tion			
2.1 Classification of the substa Classification according to	ince or mixture			
Regulation (EC) No 1272/2008	The product is not classified, according to the CLP regulation.			
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard statements	not applicable not applicable not applicable not applicable			
Additional information:	EUH208 Contains reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction. EUH210 Safety data sheet available on request.			
2.3 Other hazards	No further relevant information available.			
SECTION 3: Composition/infor	mation on ingredients			
3.2 Mixtures Description:	Titanium dioxide dispersed in water (Contd. on page 2) EU –			



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Dangerous components:			
no. 247-500-7] 239-6] (3:1)	of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC and 2-methyl-2H-isothiazol-3-one [EC no. 220- 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H33 IC, H314; Eye Dam. 1, H318 ute 1, H400 (M=100); Aquatic Chronic 1, H410 1A, H317 entration limits: Skin Corr. 1C; H314: $C \ge 0.6 \%$ Skin Irrit. 2; H315: 0.06 % $\le C <$ 0.6 % Eye Dam. 1; H318: $C \ge 0.6 \%$ Eye Irrit. 2; H319: 0.06 % $\le C <$	- 30 <	
	0.6 % Skin Sens. 1A; H317: C ≥ 0.001 %	15	
SECTION 4: First aid measures			
4.1 Description of first aid meas General information:	sures No special measures required.		
After inhalation:	No relevant way of exposure.		
After skin contact:	Wash with water and soap and rinse thorou	ghly.	
After eye contact:	Rinse opened eye for several minutes under In case of persistent symptoms consult phy		
After swallowing:	Rinse out mouth and then drink plenty of wa In case of persistent symptoms consult phy		
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.		
4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.		
SECTION 5: Firefighting measu	SECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable extinguishing agents:	Use fire fighting measures that suit the envi The product is not flammable.	ronment. (Contd. on page 3) EU —	



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	conting to 1907/2000/EC, Article 31	
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		(Contd. of page 2)
5.2 Special hazards arising from the substance or mixture	No further relevant information available.	
5.3 Advice for firefighters Protective equipment:	Use protective measures that suit the haza	rd conditions.
SECTION 6: Accidental release	measures	
6.1 Personal precautions, protective equipment and emergency procedures	Not required.	
6.2 Environmental precautions:	Do not allow to enter the ground/soil. Do not allow product to reach sewage system or water bodies.	
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, o universal binders, sawdust). Dispose of contaminated material as waste	
6.4 Reference to other sections	No dangerous materials are released. See Section 7 for information on safe hand See Section 8 for information on personal p	
SECTION 7: Handling and storage	ge	
7.1 Precautions for safe handling Information about protection	No special measures required.	
against explosions and fires:	No special measures required. The product is not flammable.	
7.2 Conditions for safe storage,	including any incompatibilities	
Requirements to be met by storerooms and containers: Information about storage in	Prevent any penetration into the ground.	
one common storage facility: Further information about	Not required.	
storage conditions:	Protect from frost.	
7.3 Specific end use(s)	There are no further specific end uses than 1.2.	those named in section
		(Contd. on page 4)



Printing date 05.10.2022 Version number 3.00 (replaces version 2.00) Revision: 04.10.2022 Trade name: KRONOS 9900 **Digital White** Titanium dioxide pigment concentrate (Contd. of page 3) **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Components with critical values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Not required. 8.2 Exposure controls Appropriate engineering controls No further data; see Section 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures: The usual precautionary measures should be adhered to in handling chemicals. Avoid contact with the eyes and skin. **Breathing equipment:** Not required. Hand protection **Requirements according to EN 374** Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. Material of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of guality and varies from manufacturer to manufacturer. If the product is used in a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Safety glasses Eye/face protection **Body protection:** Protective work clothing. **SECTION 9: Physical and chemical properties** 

9.1 Information on basic physical and chemical	properties
General Information	
Colour:	White
Smell:	Odourless
Odour threshold:	Not relevant
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling	
range	Not determined
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Flash point:		Not applicable	
pH at 20°C		8.5 - 9.5	
Viscosity:			
Kinematic viscosity		Not determined.	
dynamic at 25°C:		< 300 mPas (Rheometer, 100 1/s)	
Solubility in / Miscibility with			
Water:		Fully miscible	
Partition coefficient n-octanol/wa	tor (log value)	Not applicable	
Density and/or relative density	iter (log value)		
Density at 20°C:		1.60 - 1.70 g/cm³	
Vapour density		Not applicable.	
9.2 Other information			
Appearance:			
Form:		Fluid	
Important information on protect	ion of health and		
environment, and on safety.		a	
Self-flammability:		Product is not selfigniting.	
Explosive properties:			
		Product is not explosive.	
Solvent content:			
Solids content:		52 - 56 %	
Change in condition:			
Evaporation rate		Not determined.	
Information with regard to physic classes	cal hazard		
Explosives			
<b>p</b>	not applicable		
Flammable gases			
<b>3</b>			
	not applicable		
Aerosols			
	not applicable		
Oxidising gases	not applicable		
Oxidiality gases			
	not applicable		
Gases under pressure	not applicable		
Gases under pressure			
	not applicable		
Flammable liquids			
	not applicable		
Flammable solids			
	not applicable		
Self-reactive substances and mix	tures		
	not applicable		
			(Contd. on page 6)
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Pyrophoric liquids		(Contd. of page s
Pyrophoric solids	not applicable	
Self-heating substances a	not applicable and mixtures	
Substances and mixtures gases in contact with wat		
Oxidising liquids	not applicable	
Oxidising solids	not applicable	
Organic peroxides	not applicable	
Corrosive to metals	not applicable	
Desensitised explosives	not applicable	
	not applicable	
SECTION 10: Stability and	l reactivity	
10.1 Reactivity	The substance is stable under normal use	conditions.
10.2 Chemical stability Thermal decomposition / Conditions to be avoided:	No decomposition under normal use cond	litions.
10.3 Possibility of hazardo reactions	ous No dangerous reactions known	
10.4 Conditions to avoid	No further data; see Section 7.	
10.5 Incompatible materia	Is: No further data; see Section 7.	(Contd. on page 7



a	ccording to 1907/2006/EC, Article 31
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10.6 Hazardous decomposition products:	No dangerous decomposition products known.
SECTION 11: Toxicological info	mation
11.1 Information on hazard class	ses as defined in Regulation (EC) No 1272/2008
Acute toxicity LD/LC50 values that are relevant	Based on available data, the classification criteria are not met. t for classification:
CAS: 13463-67-7 titanium dioxid	e
Oral LD50 > 5,000 mg/kg	g (rat) (OECD 425)
Dermal LD50 > 5,000 mg/kg	g (rabbit)
Inhalative LC50/4h > 6.8 mg/l (ra	t)
	of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2- hiazol-3-one [EC no. 220-239-6] (3:1)
Inhalative LC50/4h 0.31 mg/l (rat	
Skin corrosion/irritation Serious eye damage/irritation	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisatior	n The product is not classified as sensitizing but contains ingredients that may cause allergic reactions in previously sensitized individuals.
	See section 2.2
Germ cell mutagenicity Carcinogenicity	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure Aspiration hazard	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Subacute to chronic toxicity:	
CAS: 13463-67-7 titanium dioxid	e
Oral NOAEL 3,500 mg/kg/c	l (rat) (90 d)
Dermal NOAEL mg/kg/d	
Inhalative NOAEC 10 mg/m³ (rat) 11.2 Information on other hazard Endocrine disrupting properties	ds í
None of the ingredients is listed	
SECTION 12: Ecological informa	tion
12.1 Toxisity	Peeed on available data the electrification criteria are not mot

12.1 Toxicity

Based on available data, the classification criteria are not met. (Contd. on page 8)

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12.2 Persistence and degradability	Not relevant for inorganic substances.	
12.3 Bioaccumulative potential	Does not accumulate in organisms	
12.4 Mobility in soil	The product is immobile in soil.	
12.5 Results of PBT and vPvB as PBT: vPvB: 12.6 Endocrine disrupting properties	ssessment Not applicable. Not applicable. The product does not contain substances disrupting properties.	with endocrine
12.7 Other adverse effects	No further relevant information available.	
SECTION 13: Disposal considera 13.1 Waste treatment methods European waste catalogue Uncleaned packagings: Recommendation:	ations Waste code number according to origin of Disposal according to official regulations	waste
SECTION 14: Transport informat 14.1 UN number or ID number ADR/RID/ADN, ADN, IMDG, IATA 14.2 UN proper shipping name ADR/RID/ADN, ADN, IMDG, IATA 14.3 Transport hazard class(es)	not applicable	
ADR/RID/ADN, ADN, IMDG, IATA Class 14.4 Packing group ADR/RID/ADN, IMDG, IATA 14.5 Environmental hazards 14.6 Special precautions for use 14.7 Maritime transport in bulk a	not applicable not applicable Not an environmentally haz r Not applicable.	zardous substance.
instruments	Not applicable.	(Contd. on page 9)



#### Revision: 04.10.2022 Printing date 05.10.2022 Version number 3.00 (replaces version 2.00) Trade name: KRONOS 9900 **Digital White** Titanium dioxide pigment concentrate (Contd. of page 8) **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU Named dangerous substances -**ANNEX I** None of the ingredients is listed. DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II None of the ingredients is listed. **REGULATION (EU) 2019/1148** Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed. **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** None of the ingredients is listed. Regulation (EC) No 273/2004 on drug precursors None of the ingredients is listed. Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors None of the ingredients is listed. **15.2 Chemical Safety Assessment** Substances of very high concern (SVHC) according to The product is not listed as SVHC, it does not contain any **REACH, Article 57** substances of very high concern. **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out. **SECTION 16: Other information** These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Department issuing data specification sheet: **Global Quality Management** Contact: **KRONOS INTERNATIONAL, Inc.** Tel.: INT + 49 214 356-0 e-mail: MSDS@kronosww.com Date of previous version: 11.11.2021 Version number of previous version: 2.00 RID: Règlement international concernant le transport des marchandises Abbreviations and acronyms: dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) (Contd. on page 10) EU



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	ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des man route (European Agreement Concerning the Internatio Goods by Road) IMDG: International Maritime Code for Dangerous Goo IATA: International Air Transport Association GHS: Globally Harmonised System of Classification a EINECS: European Inventory of Existing Commercial ELINCS: European Inventory of Existing Commercial ELINCS: European List of Notified Chemical Substand CAS: Chemical Abstracts Service (division of the Ame LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Eye Dam. 1: Serious eye damage/eye irritation – Category 1A Aquatic Acute 1: Hazardous to the aquatic environme Category 1 Aquatic Chronic 1: Hazardous to the aquatic environme – Category 1	onal Carriage of Dangerous ods Ind Labelling of Chemicals Chemical Substances ces erican Chemical Society) gory 1 nt - acute aquatic hazard –
* Data compared to the previ version altered.	ous Amended according to Regulation (EU) no	2020/878