Revision Date: 27-Feb-2024

Supersedes: 30-Nov-2020

Zinc Oxide, Micronized and Coated

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules and Regulation

PRODUCT & COMPANY IDENTIFICATION

Product Name: Synonyms: INCI Name: CAS Number: Formula: Product Form: Product Use:	Zinc Oxide, Micronized and Coated Zinc oxide, calamine Zinc oxide, triethoxycaprylylsilane 1314-13-2, 2943-75-1 Not available Solid Cosmetic use	Distributor: Address: Phone / Fax: Web: Emergency Tele	MakingCosmetics Inc. 10800 231 st Way NE Redmond, WA 98053 (USA) 425-292-9502 / 425-292-9601 www.makingcosmetics.com phone Number: 1-800-424-9300 (Chemtrec)
2 HAZARDS IDENTIFICATION			
Classification:	For the classification of the mixt on the concentration levels of th	ure the following e hazardous subst	methods have been applied: extrapolation ances, on basis of test results and after
Signal Word: Hazard Pictograms:	Warning		
Hazard Statements:	According to Regulation (EC) No (Aquatic Acute 1) H400: Very tox (Aquatic Chronic 1) H410: Very to M-factor acute: 1 M-factor chronic: 1	1272/2008 [CLP] ic to aquatic life. oxic to aquatic life	e with long lasting effects.
Precautionary Statements:	According to Regulation (EC) No P273: Avoid release to the enviro P391: Collect spillage. P501: Dispose of contents and co	1272/2008 [CLP] onment. ntainer to hazard	ous or special waste collection point.
Potential Health Hazards:	Eyes: Not expected to be an irrit Inhalation: No data available. Skin: Not expected to be an irrita Ingestion: No data available. Other: Fine dust can form an infl	ant ant ammable mixture	together with air.
NFPA Ratings (704):	HealthN/AN/FlammabilityN/AN/ReactivityN/AN/Specific HazardN/A	А А А	-

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Zinc oxide	1314-13-2	96% - 99%	Not Available
Triethoxycaprylylsilane	2943-75-1	1% - 4%	Not Available
Hazardous Ingredients (GHS): Zinc Oxide:	According to Regulation (EC) No Content (W/W): >= 70 % CAS Number: 1314-13-2 EC-Number: 215-222-5 REACH registration number: 01-2119463881-32	o. 1272/2008 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 1 M-factor chronic: 1 H400, H410	

Triethoxyoctylsilane:	INDI Con CAS EC-I	EX-Number: 030-013-00-7 tent (W/W): >= 1 % - < 5 % Number: 2943-75-1 Number: 220-941-2	Skin Corr./Irrit. 2 Eye Dam./Irrit. 2 H319, H315
4 FIRST AID MEASURES			
Eyes: Inhalation: Skin: Ingestion: Indication of Immediate medical attention/special treatment needed: General Information:	 Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention if necessary. If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention. Wash off with soap and plenty of water. Seek medical attention if necessary. Rinse mouth and then drink 200-300 ml of water. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if necessary. Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. If adverse health effects develop seek medical attention. 		
5 FIRE-FIGHTING MEASURE	S		
Suitable (and unsuitable)Use appropriate mediaextinguishing media:unsuitable extinguish mSpecial protective equipment &Wear self-contained, apprecautions for firefighters:eye protection and bootFlash Points:N/A (the product is a soSpecific hazards arising from theEndangering substanceschemical:Advice: Evolution of fur		Use appropriate media (wa unsuitable extinguish medi Wear self-contained, appro eye protection and boots. I accordance with official re N/A (the product is a solid) Endangering substances: Ha Advice: Evolution of fumes released in case of fire.	ter spray, carbon dioxide, foam, dry powder) for adjacent fire. No a listed. wed breathing apparatus and full protective clothing, including Dispose of fire debris and contaminated extinguishing water in gulations. armful vapors. /fog. The substances/groups of substances mentioned can be
6 ACCIDENTAL RELEASE ME	ASURES		
Personal precautions, protec equipment & emergency pro	tive cedures:	Use personal protectiv any sources of ignition handy. Avoid dust form protective equipment	e clothing. Avoid dust formation. Prevent electrostatic charge, should be kept well clear. Fire extinguishers should be kept nation. See section 8 for recommendations on the use of personal
Environmental precautions:	Avoid liquid release int		to drains, surface waters, ground water, or environment. Notify
Methods and material for cor and cleaning up:	ntainment	For small amounts: Pic Contain with dust bind materials in accordance	k up with suitable appliance and dispose of. For large amounts: ing material and dispose of. Dispose of all waste and cleanup e with regulations.
7 HANDLING & STORAGE			
Precautions for safe Har handling: rec	ndle in acc ommenda	cordance with good industri tions on the use of persona	al hygiene and safety practice. See section 8 for I protective equipment.

Protection against fire
and explosion:
Conditions for safe
storage, incl. any
incompatibilities:Prevent electrostatic charge. Sources of ignition should be kept well clear. Fire extinguishers should be
kept handy. Avoid dust formation.
Suitable materials for containers include high density polyethylene (HDPE), low density polyethylene
(LDPE), paper, fiberboard. Keep container tightly closed in a cool, well-ventilated place. Do not store
above + 40 °C. Avoid dust formation. Product has a shelf life of 36 months. Store away from incompatible
materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	Exposure Limits	<u>Basis</u>
Zinc Oxide	0.0206 mg/l (freshwater)	PNEC
	0.0061 mg/l (marine water)	PNEC

<u>Entity</u> Not available Not available

SDS (Safety Data Sheet)

		0.052 mg/l (intermittent	PNEC	Not available
		117.8 mg/kg (sediment	PNEC	Not available
		freshwater) 56.5 mg/kg (sediment freshwater)	PNEC	Not available
		35.6 mg/kg (soil)	PNEC	Not available
TWA: Time Weighted TLV: Threshold Limit REL: Recommended E PEL: Permissible Expo	Average over 8 hours Value over 8 hours of xposure Limit osure Limit	of work. work.	STEL: Short Term Ex IDLH: Immediately D WEEL: Workplace Er CEIL: Ceiling	posure Limit during x minutes. Jangerous to Life or Health ivronmental Exposure Levels
Appropriate Engineering Controls:	If dust formati adequate vent	ion caused by handling cannot b ilation.	e avoided Staubex e	quipment for plants may be necessary. Ensure
Environmental Exposure	Do not dischar	ge product into the environmen	t without control.	
Personal Protect	tion:			
Eves:	Safety glasses	with side shields should be wor	n (frame goggles) (e.	.g. EN 166).
Inhalation:	Breathing prot liquid particle long-term effe	ection if breathable aerosols/du s (e.g. EN 143 or 149, Type P3 o ect: Self-contained breathing ap	ust are formed. Part r FFP3). Suitable res paratus.	icle filter with high efficiency for solid and spiratory protection for higher concentrations or
Body:	Body protection protection suir resistant safet corresponding rubber (0.5 m Supplementar manufacturers must be consid the permeatio	on must be chosen depending on t, according to EN 14605 in case y gloves (EN 374) also with proto > 480 minutes of permeation tin m), butyl rubber (0.7 mm) etc. y note: The specifications are ba or are derived from similar sub dered, that the practical usage on n time determined through test	activity and exposu of splashes or EN IS onged, direct contac me according to EN ased on tests, literat stances by analogy. of a chemical-protecting.	re (e.g. apron, protecting boots, chemical- O 13982 in case of dust). Suitable chemical et (Recommended: Protective index 6, 374): E.g. nitrile rubber (0.4 mm), chloroprene et data and information of glove Due to many conditions (e.g. temperature) it et glove in practice may be much shorter than
General Safety & Hygiene Measures:	Avoid contact practice. No e industrial hygi	with eyes. Avoid inhalation of d ating, drinking, smoking, or tob ene and safety practice.	usts. Handle in acco acco use at the plac	rdance with good industrial hygiene and safety e of work. Handle in accordance with good
Risk	Treat air emis	sions to provide a typical remov	al efficiency of (%):	< 99 %
Management	Air treatment	measures considered suitable a	e, e.g.: fabric filter	
Measures:	Treat wastewa Wastewater tr Treat air emis	ater (prior to discharge to STP) t eatment measures considered s sions to provide a typical remov	o provide the requir uitable are, e.g.: Pr al efficiency of (%):	red removal efficiency of (%): 90 - 99.9% ecipitation < 99%
	Air treatment Treat wastewa Wastewater tr Treat air emis Air treatment Treat wastewa Wastewater tr Osmosis (OR)	measures considered suitable an ater (prior to discharge to STP) t eatment measures considered su sions to provide a typical remov measures considered suitable an ater (prior to discharge to STP) t eatment measures considered su	re, e.g.: Filtration o provide the requir uitable are, e.g.: Se al efficiency of (%): re, e.g.: Gas scrubbe o provide the requir uitable are, e.g.: Na	red removal efficiency of (%): 90 - 99.9% dimentation 50 - 99% er red removal efficiency of (%): 90 - 99.9% nofiltration (NR), Ultrafiltration (UF) or Reverse

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder	Vapor Pressure:	N/A (solid with a melting tomporature over 300° C)
Odor:	Odorless	Relative Vapor Density:	The product is a non-volatile
Odor Threshold:	N/A (odor not perceivable)	Evaporation Rate:	The product is a non-volatile solid
Color: Primary Particle Size:	White < 200 nm	Flammability: Upper/lower Explosive Limit:	Not flammable For solids not relevant for

			classification and labellinG
pH:	approx. 7 (50 g/l, 20°C) (as suspension)	Flash Point:	N/A (the product is a solid)
Boiling Point:	N/A (solid with a melting temperature over 300°C)	Molecular Weight:	81 (for ZnO) g/mol
Melting Point:	approx.1,970 °C	Water Solubility:	Insoluble
Partition Coefficient: n- octanol/water:	N/A	Self-Ignition:	Not classified as self-igniting
Self-Heating Ability:	Not capable of spontaneous heating.	Thermal Decomposition:	No decomposition if stored/handled as prescribed/indicated
Viscosity, Kinematic:	N/A (the product is a solid)	Explosion Hazard:	No indication of explosive properties.
Oxidizing Properties:	Not classified as oxidizing	Bulk Density:	Approx. 500 - 700 kg/m3 Literature data. 500 kg/m3

10 STABILITY AND REACTIVITY

Reactivity:	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical Stability:	The product is stable if stored and handled as prescribed/indicated.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	Avoid dust formation. Avoid deposition of dust.
Incompatible Materials:	hydrogen peroxide solution, magnesium powder (pyrophoric).
Hazardous Decomposition Products:	No hazardous decomposition products if stored and handled as prescribed/indicated.
Possible Hazardous Reactions:	No hazardous reactions if stored and handled as prescribed/indicated.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Virtually nontoxic after a single ingestion.
SKIII:	
Eyes:	Not initiating to eyes.
Respiratory:	
Ingestion:	LD50: > 5,000 mg/kg (rat)
Carcinogenicity:	Based on the ingredients there is no suspicion of a carcinogenic effect in humans. The product
	has not been tested. The statement has been derived from the properties of the individual components.
Germ Cell Mutagenicity:	The chemical structure does not suggest a specific alert for such an effect.
Embryotoxicity:	No data available.
Specific Target Organ Toxicity:	STOT single: Based on available data, the classification criteria are not met.
,	Assessment of repeated dose toxicity: Repeated exposure to large quantities may affect certain organs. Damages blood cells. Damages the lung.
Reproductive Toxicity:	The chemical structure does not suggest a specific alert for such an effect.
Developmental Toxicity:	No data was available concerning toxicity to development.
Skin Sensitization:	There is no evidence of a skin-sensitizing potential.
Aspiration Hazard:	No aspiration hazard expected.
Other Relevant Toxicity	The product has not been tested. The statements on toxicology have been derived from the
Information:	properties of the individual components.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	Very toxic (acute effect) to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.
Aquatic Vertebrate: Aquatic Invertebrate:	LC50: > 0.1 - 1 mg/l No data available.
Microorganisms/Effect on Activated Sludge:	EC0 > 1 - 10 mg/l
Persistence and Degradability:	(Assessment biodegradation and elimination (H2O)) The product is virtually insoluble in water

Bioaccumulativo Potontial:	and can thus be separated from water mechanically in suitable effluent treatment plants
Dioaccumulative Fotential.	No data avaliable.
Mobility in Soil:	(Assessment transport between environmental compartments) Volatility: not applicable
PBT and vPvB Assessment:	According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration,
	Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self-classification.
Other Adverse Effects:	The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.
Other Ecotoxicological Advice:	The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13 DISPOSAL CONSIDERATIONS

Waste Residues:Must be disposed of or incinerated in accordance with local regulations.Product Containers:Must be disposed of or incinerated in accordance with local regulations.Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the
same manner as the contents. Dispose of contents/container in accordance with all applicable local
regulations.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not data available.
TDG (Transportation of Dangerous Goods, Canada):	Not data available.
IMDG (International Maritime Dangerous Goods):	UN number: UN3077
(3)	UN Proper Shipping Name: Environmentally hazardous substance, solid,
	N.O.S (Contains Zinc Oxide)
	Transport hazard class(es): 9. EHSM
	Packing group: III
	Environmental hazards: ves
	Marine Pollutant: ves
	Special precautions for user: None known
IATA (International Air Transport Association):	LIN number: LIN3077
	UN Proper Shipping Name: Environmentally hazardous substance, solid,
	N O S (Contains Zinc Oxide)
	Transport hazard class(es): 9. FHSM
	Packing group: III
	Environmental hazards: ves
	Special precautions for user: None known
ICAO (International Civil Aviation Organization):	LIN number: LIN3077
	UN Proper Shipping Name: Environmentally hazardous substance, solid.
	N.O.S (Contains Zinc Oxide)
	Transport hazard class(es): 9. EHSM
	Packing group: III
	Environmental hazards: ves
	Special precautions for user: None known
ADR/RID (International Carriage of Dangerous Goods	UN number: UN3077
by Rail and Road):	UN Proper Shipping Name: Environmentally hazardous substance, solid,
- , ,-	N.O.S (Contains Zinc Oxide)
	Transport hazard class(es): 9. EHSM
	Packing group: III
	Environmental hazards: ves
	Special precautions for user: None known
ADN (EU Agreement International Carriage of	UN number: UN3077
Dangerous Goods by Inland Waterways);	UN Proper Shipping Name: Environmentally hazardous substance, solid,
	N.O.S (Contains Zinc Oxide)
	Transport hazard class(es): 9, EHSM
	Packing group: III



SDS (Safety Data Sheet)

Environmental hazards: yes Special precautions for user: None known Transport in inland waterway vessel: Not evaluated

15 REGULATORY INFORMATION

Safety/Health/Environmental	Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Regulations/Legislation Specific	List entry in regulation: E1
for the Substance/Mixture:	
TSCA Inventory Status:	Listed.
DSL (Canada):	Listed
EU (EINECS):	Listed
Switzerland:	Listed
China IECSC:	Listed
Australia AICS:	Listed
Taiwan (TCSI)	Listed
Japan (ENCS/ISHL):	Listed
Philippines PICCS:	Listed
Korea ECL:	Cleared with restrictions.
New Zealand (NZIOC):	Listed

16 OTHER INFORMATION

Revision Date:	
Compliance:	

Disclaimer:

27-Feb-2024 This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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