

SAFETY DATA SHEET

1. Identification

1. Idonanoudon		
Product identifier	Zinc Tungstate	
Other means of identification		
SDS number	2EL	
Materion Code	2EL	
CAS number	13597-56-3	
Manufacturer/Importer/Supplier/Di Manufacturer	istributor information	
Company name	Materion Advanced Chemica	als Inc.
Address	407 N 13th Street	
	1316 W. St. Paul Avenue	
	Milwaukee, WI 53233	
	United States	
Telephone	414.212.0257	
E-mail	advancedmaterials@materio Noreen Atkinson	DN.COM
Contact person Emergency phone number	Chemtrec	800.424.9300
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The substance does not me	et the criteria for classification.
Precautionary statement		
Prevention	Observe good industrial hyg	iene practices.
Response	Wash hands after handling.	
Storage	Store away from incompatib	le materials.
Disposal	Dispose of waste and residu	es in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	For further information, please	se contact the Product Stewardship Department at +1.800.862.4118.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Zinc Tungstate		13597-56-3	90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7 Londling and storage	

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage,	Store in original tightly closed container. Store away from incompatible materials (see Section 10
including any incompatibilities	of the SDS).

8. Exposure controls/personal protection

Material	Туре	Value	
	Туре	Value	
Zinc Tungstate (CAS	STEL	10 mg/m3	
13597-56-3)			
	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Material	Туре	Value	
Zinc Tungstate (CAS	STEL	10 mg/m3	
13597-56-3)			
	TWA	5 mg/m3	
US. California Code of Regulation	ns, Title 8, Section 5155. Airborne	Contaminants	
Material	Туре	Value	
Zinc Tungstate (CAS	PEL	5 mg/m3	
13597-56-3)		-	
•	STEL	10 mg/m3	

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Control parameters	Follow standard monitoring procedures.
Individual protection measures, su Eye/face protection	ch as personal protective equipment Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosi	ive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies) Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Explosive properties	Not explosive.
Molecular formula	O4WZn
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological effects	8	
Acute toxicity	Not available.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall Ev	valuation of Carcinogenicity	
Not listed.		
	Substances (29 CFR 1910.1001-1050)	
Not regulated.	ram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.		

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA Section 12(b) Export N	lotification (40 CFR 707, Subpt.	D)	
Not regulated.			
CERCLA Hazardous Substar	nce List (40 CFR 302.4)		
Zinc Tungstate (CAS 13597-56-3)		Listed.	
SARA 304 Emergency releas	e notification		
Not regulated.			
OSHA Specifically Regulated	Substances (29 CFR 1910.100	1-1050)	
Not regulated.			
Superfund Amendments and Rea	uthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No		
	Delayed Hazard - No		
	Fire Hazard - No		
	Pressure Hazard - No		
	Reactivity Hazard - No		
SARA 302 Extremely hazard	ous substance		
Not listed.			
SARA 311/312 Hazardous chemical	Yes		

Chemical name		CAS number	% by wt.
Zinc Tungstate		13597-56-3	90 - 100
Other federal regulations			
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Polle	utants (HAPs) List	
Not regulated.			
Clean Air Act (CAA) Sectior	n 112(r) Accidental Relea	se Prevention (40 CFR 6	68.130)
Not regulated.			
Clean Water Act (CWA)	Priority pollutant		
Section 112(r) (40 CFR 68.130)	Toxic pollutant		
Safe Drinking Water Act (SDWA)	Not regulated.		
16. Other information, incl	uding date of prepar	ation or last revision	I
Issue date	12-23-2015		
Revision date	01-15-2018		
Version #	02		
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