

SAFETY DATA SHEET

1. Identification

Product identifier	Zinc pieces		
Other means of identification			
SDS number	2DU		
Materion Code	2DU		
CAS number	7440-66-6		
Synonyms	ZINC		
Manufacturer/Importer/Supplier/D	istributor information		
Manufacturer			
Company name	Materion Electronic Materials		
Address	6070 Parkland Blvd		
	Mayfield Heights, Ohio 44124		
Talaakaa	United States		
	1.216.383.4019		
E-mail	Materion-PS@materion.com		
Contact person Emergency phone number	Product Stewardship Director See Section 16		
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 material as sold in solid form is generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulate could be generated.		
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	For further information, please contact the Product Stewardship Department at +1.216.383.4019.		
2. Composition (information			

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
zinc	ZINC	7440-66-6	100

4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist.

Material name: Zinc pieces

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	Powder. Dry sand.		
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	Move containers from fire area if you can do so without risk.		
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 measu	res		
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.		
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.		
7. Handling and storage			
Precautions for safe handling	Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).		
8. Exposure controls/persona	al protection		
Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	Good general ventilation 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.		
Individual protection measures, suc Eye/face protection	ch as personal protective equipment Wear safety glasses with side shields (or goggles).		
Skin protection Hand protection	Wear gloves to prevent metal cuts and skin abrasions during handling.		
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.		

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

o. Thyoical and onormour pi	
Appearance	
Physical state	Not available.
Form	Solid
Color	Gray-silver
Odor	None.
Odor threshold	Not available.
рН	Not applicable.
Melting point/freezing point	787.15 °F (419.53 °C)
Initial boiling point and boiling range	1664.6 °F (907 °C)
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	None known.
Upper/lower flammability or explo	sive limits
Explosive limit - lower (%)	Not applicable.
Explosive limit - lower (%) temperature	Not applicable.
Explosive limit - upper (%)	Not applicable.
Explosive limit - upper (%) temperature	Not applicable.
Vapor pressure	<0.0000001 kPa (77 °F (25 °C))
Vapor density	Not applicable.
Relative density	Not applicable.
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Other information	
Density	7.13 g/cm3 at 25 °C 7.13 g/cm3 estimated at 25 °C
Explosive properties	Not explosive.
Kinematic viscosity	Not applicable.
Molecular formula	Zn
Molecular weight	65.38 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	7.13 estimated 7.13 estimated
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage an

Reactivity Chemical stability

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

Respiratory or skin sensitization	Not a reanization, consitizor		
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	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall E	valuation of Carcinogenicity		
Not listed.			
	Substances (29 CFR 1910.1001-1053)		
Not listed.			
	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 likely, due to the form of the product.		
Further information	This product has no known adverse effect on human health.		
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.		
Product	Species Test Results		
zinc (CAS 7440-66-6)			
Aquatic			
Acute			

Water flea (Daphnia magna)

Material name: Zinc pieces

Crustacea

2DU Version #: 06 Revision date: 08-26-2024 Issue date: 07-14-2015

EC50

2.8 mg/l, 48 hours

Product		Species	Test Results
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.41 mg/l, 96 hours
Persistence and degradability	No data is av	vailable on the degradability of this	substance.
Bioaccumulative potential	No data avai	lable.	
Mobility in soil	No data avai	lable.	
Other adverse effects			one depletion, photochemical ozone creation otoential) are expected from this component.
13. Disposal consideration	าร		
Disposal instructions	Collect and r	eclaim or dispose in sealed contain	ers at licensed waste disposal site.
-ocal disposal regulations	Dispose in a	ccordance with all applicable regula	tions.
Hazardous waste code	The waste co disposal com	_	n between the user, the producer and the waste
Waste from residues / unused products	-	lues. This material and its container	Empty containers or liners may retain some must be disposed of in a safe manner (see:
Contaminated packaging	-		idue, follow label warnings even after container n approved waste handling site for recycling or
14. Transport information			
тот			
Not regulated as dangerous	s goods.		
ATA			
Not regulated as dangerous	s goods.		
MDG			
Not regulated as dangerous	s goods.		
15. Regulatory information	า		
JS federal regulations		is not known to be a "Hazardous Cl ion Standard, 29 CFR 1910.1200.	nemical" as defined by the OSHA Hazard
Toxic Substances Control A	Act (TSCA)		
TSCA Section 12(b) Ex	kport Notification ((40 CFR 707, Subpt. D)	
zinc (CAS 7440-66	6-6)	1.0 % Annual Ex	port Notification required.
CERCLA Hazardous Subst	ance List (40 CFF	R 302.4)	
zinc (CAS 7440-66-6) SARA 304 Emergency rele	ase notification	Listed.	
Not regulated. OSHA Specifically Regulate	ed Substances (2	9 CFR 1910.1001-1053)	
Not listed.			
Superfund Amendments and Re SARA 302 Extremely haza		t of 1986 (SARA)	
Not listed. SARA 311/312 Hazardous chemical	No (Exempt)		
SARA 313 (TRI reporting)			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Priority pollutant Toxic pollutant
Safe Drinking Water Act (SDWA)	Not regulated.

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) zinc (CAS 7440-66-6)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

16. Other information, including date of preparation or last revision

Issue date	07-14-2015
Revision date	08-26-2024
Version #	06
Further information	Transportation Emergency Call Chemtrec at: US: 800.424.9300 International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402 Chemtrec's toll free, mobile-enabled number in Germany – 0800 1817059 South Korea Toll-free Number – 080-880-0468
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.