



SAFETY DATA SHEET

Preparation Date: 06/25/2015 Revision date 12/10/2018 Revision Number: G2

1. Identification

Product identifier

Product code: Z1040

Product Name: ZINC METAL, 5 IN. X 0.25 IN. X 0.25 IN., STICKS, REAGENT

Other means of identification

Synonyms: Zinc Metal Sheets; Zinc Metal Shot; Zinc Metal Strips; Zinc Foil

CAS #: 7440-66-6

RTECS # ZG8600000

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards
Not available

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Zinc Metal	7440-66-6	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products No information available.

Specific hazards Zinc + NaOH causes ignition.Oxidation of zinc by

potassium proceeds with incandescence. Residues from zinc dust /acetic acid reduction operations may ignite after

long delay if discarded into waste bins with

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paper.Incandescent reaction when Zinc and Arsenic or Tellurium, or Selenium are combined.When hydrazine mononitrate is heated in contact with zinc, a flamming decomposition occurs at temperatures a little above its melting point.Contact with acids and alkali hydroxides (sodium hydroxide, postasium hydroxide, calcium hydroxide, etc.) results in evolution of hydrogen with sufficient heat of reaction to ignite the hydrogen gas.Zinc powder or dust that is damp or in contact with water or moist (damp) air evolves flammable hydrogen gas. The heat of reaction is sufficient that the hydrogen may ignite.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not

touch damaged containers or spilled material unless wearing appropriate protective

clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

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Incompatible Materials:

Acids Alkalis

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Zinc Metal	7440-66-6	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Zinc Metal	7440-66-6	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Zinc Metal	7440-66-6	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room

ventilation or use of local exhaust (fume hood) is sufficient.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product name: ZINC METAL, 5 IN. X 0.25 IN. X 0.25 IN., STICKS, REAGENT

Physical state:Appearance:Color:SolidLustrous. Metal.Bluish-grey.

Odor: Taste Formula

Molecular/Formula weight (g/mole): Flammability (solid, gas)

Non-flammable

Flashpoint (°C/°F):

No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Not available No information available No information available

Upper Explosion Limit (%):

Melting point/range(°C/°F):

Decomposition temperature(°C/°F):

No information available 419°C/786.2°F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3): 907°C/1664.6°F No information available No information available

Specific gravity: pH Vapor pressure @ 20°C (kPa):
No information available No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):

Odor threshold (ppm): Partition coefficient Viscosity:
No information available (n-octanol/water): No information available
No information available

Miscibility: Solubility:
No information available Insoluble in Acetone

Insoluble in cold water Insoluble in diethyl ether Insoluble in hot water Insoluble in methanol Insoluble en n-octanol

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids

Reactive with alkalis

Reactive with oxidizing agents

Incompatible with acids, nitric acid (HNO3), sulfuric acid, hydrochlorid acid, acetic acid peroxyformic acid, Chromic acid (CrO3), performic acid, halogenated hydrocarbons, ammonium nitrate (NH4NO3), barium dioxide (BaO2), Barium nitrate (Ba(NO3)2), Cadmium, carbon disulfide (CS2), chlorates, chlorine (Cl2), chlorine trifluoride (Cl3), chlorine tetrafluoride, fluorine (F2), Hydroxylamine, hydrazine mononitrate, Pb(N3)2, magnesium + barium nitrate + barium dioxide, manganese chloride (MnCl2), potassium chlorate (KClO3), potassium nitrate (KNO3), potassium peroxide (K2O2), potassium dioxide, titanium oxide, Selenium, sodium chloriate (NaClO3), sodium perioxide (Na2O2), Sulfur, Telurium (Te), ammonium sulfide ((NH4)2S), arsenic trioxide (As2O3), bromomethane, chloromethane, bromine pentafluoride, calcium chloride (CaCl2), alkali hydroxides (sodium hydroxide, potassium hydroxide, calcium hydroxide, etc.), chlorinated rubber, catalytic metals, halocarbons, o-nitroanisole, nitrobenzene, nonmetals, oxidants, paint primer base, pentacarbonoyliron, transition metal halides, seleninyl bromide, (Mg +Ba(NO3)2 +BaO2), (ethyl acetoacetate + tribromoneopentyl alcohol). Contact with Alkali Hydroxides (Sodium Hydroxide, Potassium Hydroxide, Calcium Hydroxide, etc) results in evolution of hydrogen with sufficient heat of reaction to ignite the hydrogen gas. Ammonium nitrate + zinc + water causes a violent reaction with evolution of steam and zinc oxide. Zinc foil reacts explosively when heated with anhydrous manganese dichloride. Zinc foil will ignite in cold chlorine when trace amounts of moisture are present. Zinc powder or dust that is damp or in contact with water or moist (damp) air evolves flammable hydrogen gas. The heat of reaction is sufficient that the hydrogen may ignite. Zinc in compact form (foil, granular, sheets, strips) does not burn readily until it is heated above 500 deg. C.

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Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Incompatible materials.

Incompatible Materials: Acids

Alkalis

Oxidizing agents

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Zinc Metal

CAS No 7440-66-6

LD50/oral/rat = 630 mg/kg Oral LD50 Rat **LD50/oral/mouse** = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Tox = 630 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Product code: Z1040

Value - Acute Tox = No information available

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

Product name: ZINC METAL, 5 IN. X 0.25 IN. X 0.25 IN., STICKS, REAGENT LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available **VALUE - Gas** = No information available **VALUE - Dust/Mist** = No information available

Symptoms

Skin Contact: May cause skin irritation. Dermal exposure to zinc may produce leg pains, fatigue,

anorexia and weight loss.

Eye Contact: Zinc in the forms of Zinc Metal Sheets; Zinc Metal Shot; Zinc Metal Strips; Zinc

Foil; Zinc Metal sticks; Zinc Metal, mossy are not expected to get into the eyes

and cause eye irritation.

Inhalation Not an inhalation hazard in forms of Zinc Metal Sheets; Zinc Metal Shot; Zinc

Metal Strips; Zinc Foil; Zinc Metal sticks; Zinc Metal, mossy when handled under

normal conditions.

Ingestion May cause digestive tract irritation with tightness in throat, nausea, vomiting,

diarrhea, loss of appetite, malaise, abdominal pain. fever, and chills. May affect behavior/central nervous system and autonomic nervous system with ataxia,

lethargy, staggering gait, mild derrangement in cerebellar function,

lightheadedness, dizziness, irritability, muscular stiffness, and pain. May also

affect blood.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Zinc Metal	7440-66-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

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Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available. No information available. No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Zinc Metal - 7440-66-6

Algae/aquatic plants EC50: 0.11 - 0.271mg/L (96h, Pseudokirchneriella subcapitata) EC50: 0.09 -

0.125mg/L (72h, Pseudokirchneriella subcapitata)

Fish LC50: 2.16 - 3.05mg/L (96h, Pimephales promelas) LC50: 0.211 - 0.269mg/L

(96h, Pimephales promelas) LC50: =2.66mg/L (96h, Pimephales promelas) LC50: =30mg/L (96h, Cyprinus carpio) LC50: =0.45mg/L (96h, Cyprinus carpio) LC50: =7.8mg/L (96h, Cyprinus carpio) LC50: =3.5mg/L (96h, Lepomis macrochirus)

LC50: =0.24mg/L (96h, Oncorhynchus mykiss) LC50: =0.59mg/L (96h, Oncorhynchus mykiss) LC50: =0.41mg/L (96h, Oncorhynchus mykiss)

Crustacea EC50: 0.139 - 0.908mg/L (48h, Daphnia magna)

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series
		Wastes	Wastes	Wastes	Wastes
Zinc Metal	7440-66-6	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available

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Subsidiary Class
Packing group:
No information available
Emergency Response Guide
No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
IF exposed or concerned

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Response

Product code: Z1040

Special Provisions No information available

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15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Zinc Metal	7440-66-6	PresentACTIV E	Present KE-35518	Present	Not present	Х	Х	Present 231-175-3

U.S. Regulations

Zinc Metal

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 2021

New Jersey (EHS) List: 2021 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present

Michigan - Critical Materials List: Present

New York Release Reporting - List of Hazardous Substances:

1000 lb RQ 100 lb RQ

Louisana Reportable Quantity List for Pollutants: 454kgfinal RQno reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >=100 μm

1000lbfinal RQno reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is

>=100 μm

California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Zinc Metal	7440-66-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Zinc Metal		454 kg final RQ 1000 lb final RQ	None	None		1.0 % de minimis concentration

U.S. TSCA

Component		` ` `	TSCA 8(d) -Health and Safety Reporting
Zinc Metal	7440-66-6	Not Applicable	Not Applicable

Canada

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WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification

Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous

Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No		Canada (NDSL)
Zinc Metal	7440-66-6	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Zinc Metal	7440-66-6	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Zinc Metal	7440-66-6	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Zinc Metal	7440-66-6	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Zinc Metal	7440-66-6		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None

16. OTHER INFORMATION

Preparation Date:06/25/2015Revision date12/10/2018Prepared by:Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product

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is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

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