Heegermaterials

SAFETY DATA SHEET

Creation Date 07-Mar-2018 Revision Date 14-Feb-2020 **Revision Number** 2

1. Identification

Product Name Cobalt powder

CAS-No 7440-48-4

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Company
Heeger Materials Inc.
230 Steele St Denver
CO 80206
United States

Tel: 925-385-8104

Email: sales@heegermaterials.com

Emergency Telephone Number
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.
After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids Category 2 Acute oral toxicity Category 4 Acute Inhalation Toxicity - Dusts and Mists Category 1 Serious Eye Damage/Eye Irritation Category 2 Respiratory Sensitization Category 1 Skin Sensitization Category 1 Germ Cell Mutagenicity Category 2 Carcinogenicity Category 1B Reproductive Toxicity Category 1B

Label Elements

Signal Word

Danger

Hazard Statements

Flammable solid Harmful if swallowed

May cause an allergic skin reaction

Causes serious eye irritation

Fatal if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled

Suspected of causing genetic defects

May cause cancer by inhalation

May damage fertility



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not eat, drink of a Do not breathe dust/fume/gas/misc.

Use only outdoors or in a well-ventilated area

Wear respiratory protection
In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

A container and receiving equipment

Contaminated work place

The protection/face protection

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Cobalt powder Revision Date 14-Feb-2020

Very toxic to aquatic life with long lasting effects WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Cobalt, powder	7440-48-4	<=100	

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain,

the.

muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point Method -No information available

No information available

Autoignition Temperature

Explosion Limits

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Cobalt powder Revision Date 14-Feb-2020

Health Flammability Instability Physical hazards

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe

N/A

areas.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to

contaminate ground water system. Prevent product from entering drains. Local authorities

should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up**

7. Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on

clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Cobalt, powder	TWA: 0.02 mg/m ³	(Vacated) TWA: 0.05 mg/m ³	IDLH: 20 mg/m ³	TWA: 0.02 mg/m ³
	OCA	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³	_

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Solid Powder

AppearanceNo information availableOdorNo information availableOdor ThresholdNo information available

pH No information available Melting Point/Range 1495 °C / 2723 °F

Boiling Point/Range 2870 °C / 5198 °F **Flash Point** No information available

Evaporation Rate Not applicable Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available

Vapor Density Not applicable

Specific Gravity No information available Solubility Insoluble in water

Partition coefficient; n-octanol/water No data available

Autoignition Temperature No information available **Decomposition Temperature** No information available

Viscosity Not applicable

Molecular Formula Co 58.93 **Molecular Weight**

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous polymerization does not occur. **Hazardous Polymerization**

None under normal processing. **Hazardous Reactions**

11. Toxicological information

	TT. TOXICOIOGIC	cai illiorillation	
Acute Toxicity		42	h
Product Information Component Information			VC
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cobalt, powder	LD50 = 6171 mg/kg (Rat)	Not listed	10 mg/L (Rat)1 h

Toxicologically Synergistic

Products

No information available

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

No information available Irritation Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Cobalt, powder	7440-48-4	Group 2B	Reasonably	A3	Х	A3
		1	Anticipated			

IARC (International Agency for Research on Cancer)

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Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

A1 - Confirmed Human Carcinogen A2 - Suspected Human Carcinogen A3 - Confirmed Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen A5 - Not Suspected as a Human Carcinogen

No information available **Mutagenic Effects**

ACGIH: (American Conference of Governmental Industrial

Mexico - Occupational Exposure Limits - Carcinogens

No information available. **Reproductive Effects**

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and

delayed

Hygienists)

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Water Flea	Water Flo	7	Microtox	Freshwater Fish	Freshwater Algae	Component
Not listed	Not liste		Not listed	LC50: > 100 mg/L, 96h static (Brachydanio rerio)	Not listed	Cobalt, powder
.,		44(TVOC IISCO	9 /	TVOC HOLOG	Cobait, powder

Persistence and Degradability Insoluble in water

No information available. **Bioaccumulation/ Accumulation**

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No

Proper Shipping Name METAL POWDERS, FLAMMABLE, N.O.S.

Technical Name Cobalt, powder

Hazard Class 4.1 Ш **Packing Group**

TDG

UN-No

Proper Shipping Name METAL POWDER, FLAMMABLE, N.O.S.

Hazard Class 4.1 **Packing Group**

IATA

UN3089 **UN-No**

Proper Shipping Name METAL POWDER, FLAMMABLE, N.O.S.

Hazard Class Packing Group

IMDG/IMO

UN3089 **UN-No**

Proper Shipping Name METAL POWDER, FLAMMABLE, N.O.S.

Hazard Class 4.1 **Packing Group** Ш

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Cobalt, powder	balt, powder 7440-48-4 X ACTIVE		ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Cobalt, powder	7440-48-4	X	-	231-158-0	X	X	Χ	Х	KE-06060
U.S. Federal Regulations									
SARA 313							4 C		

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Cobalt, powder	7440-48-4	<=100	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

Not applicable

Health Administration

Not applicable **CERCLA**

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Cobalt, powder	7440-48-4	Carcinogen	-	Carcinogen

U.S. State Right-to-Know

Regulations

Ī	Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
İ	Cobalt, powder	Х	Х	X	X	Х

U.S. Department of Transportation

Reportable Quantity (RQ): Ν DOT Marine Pollutant Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

No information available Mexico - Grade

16. Other information

Health, Safety and Environmental Department **Prepared By**

07-Mar-2018 **Creation Date** 14-Feb-2020 **Revision Date Print Date** 14-Feb-2020

Revision Summary SDS authoring systems update, replaces ChemGes SDS No. 7440-48-4/3.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information als Inc. relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS