SAFETY DATA SHEET

Issue Date (10-02-2014) Review Date (03-21-2025) Rev.: 03

Section 1: Product and Company Identification

Product Name: Iridium Products

Synonym: None

Company Name

Heeger Materials Inc., 230 Steele St Denver, CO 80206

Inside USA and Canada 1-925-385-8104 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST) Outside USA and Canada 1-833-222-8587 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST) CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS)

GHS Label Elements: Signal Word: Hazard Pictograms: Hazard Statements: WHMIS classification: Not applicable Not applicable Not applicable Not controlled

Hazardous Materials Identification System) HMIS rating (scale 0-4)

HEALTH	0	Acute effects = 0
FIRE	0	Flammability = 0
REACTIVITY	0	Physical Hazard = 0

Other Hazards:

Results of PBT and vPvB assessment: PBT: Not applicable vPvB: Not applicable

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Section 3: Composition / Information on Ingredients

Component	CAS Number	EC Number	<u>% w/w</u>
Iridium	7439-88-5	231-095-9	≤100%

Section 4: First Aid Measures

General advice:	No special measures required.
Inhalation:	Seek medical treatment in case of complaints.
Skin Contact:	Generally, the product does not irritate skin.
Eye(s) Contact:	Rinse opened eye for several minutes under running water. Symptoms persist, consult a doctor.
Ingestion:	If symptoms persist, consult a doctor.
Note to physician:	No further relevant information available.

Section 5: Fire Fighting Measures

Suitable extinguishing media:	Special powder for metal fires. Do not use water.
Unsuitable extinguishing media:	Water.
Hazardous Combustion Products:	Metal oxide fumes.
Firefighters Protective Equipment:	No special measures required.

Section 6: Accidental Release Measures

Section 6. Accidental nelease measures	
Personal precautions, protective equipment and emergency procedure:	Not required
Environmental precautions:	
Do not allow material to be release to the environment without government	al permits.
Methods and material for containment and cleaning up:	Pick up Mechanically.
Prevention of secondary hazards:	No special measures required.
Reference for other sections	
See Section 7 on Safe Handling:	
See Section 8 for Personal Protection Equipment.	-
See Section 13 for Disposal Information.	7 /
• PAC-1: 4.7 mg/m ³ • PAC-2: 51 mg/m ³ • PAC-3: 310 mg/m ³	
Section 7: Handling and Storage	

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Precautions for safe handling

Store in a cool, dry place in tightly closed containers. Keep containers tightly sealed.

Information about protection against explosions and fire: Conditions for safe storage, including incompatibilities

No special requirements.

No special measures required.

Requirements to be met by storerooms and receptacles: Information about storage in one common storage facility: Keep container(s) tightly sealed.

Not required.

Store in cool, dry conditions in well-sealed containers. **Specific end use(s)** No further relevant information available.

Section 8: Exposure Controls / Personal Protection

Additional Information abo	ut design of techni	ical systems: No further data; see section 7.
Control Parameters:	•	oes not contain any relevant quantities of materials with critical values e monitored at the workplace.
Additional information:	No data	
Exposure Controls:		
Personal protective equipm	ent	
General protective and Hygienic measures		Standard precautionary measures for handling chemicals should be followed. Maintain an ergonomically appropriate working environment
Breathing Equipment:	Not required.	

Protection of hands: Penetration time of glove material (in minutes): Eye Protection: Body Protection: Not required. Not determined Safety Glasses Protective work clothing.

Section 9 Physical and Chemical Properties

Physical state Odor Odor threshold pН Melting point/range Boiling point/range Flash point Sublimation Temperature/Start Flammability (solid, gas) Ignition temperature Auto Igniting Danger of Explosion Upper explosion/flammability limit Lower explosion/flammability limit Vapor pressure Density @ 20°C (68°F) 3026 **Relative density** Vapor density **Evaporation** rate Solubility in H₂O Partition coefficient (n-octanol/water) Viscosity, dynamic Viscosity, kinematic

Solid in various forms Not determined Not determined Not applicable No data available 4442°F / 2450°C 8002°F / 4428°C Not determined Not determined Not determined Not determined Product does not present an explosion hazard Not determined Not determined Not applicable 22.65 g/cm³ (189.014lbs/gal) Not applicable Not applicable Not applicable Not determined Not determined Not applicable Not applicable

Section 10: Stability and Reactivity

Reactivity: Chemical stability: Thermal decomposition/conditions to be avoided

Possibility of hazardous reactions: Conditions to avoid Incompatible materials: Hazardous decomposition products:

Section 11: Toxicological Information Information on Toxicological effects Acute Toxicity: LD/LC50 values for classification: Skin irritation or Corrosion: Eye irritation: Sensitization: Germ cell mutagenicity: Carcinogenicity:

Reproductive toxicity: Specific target organ toxicity-repeated exposure: Specific target organ toxicity-single exposure: No known information. Stable under recommended storage conditions. Decomposition will not occur if used and stored according to specifications. No dangerous reactions known. No further relevant information available. No further information known. Metal oxide fume

No known effects

No Data Powder: irritant effect. Powder: irritant effect. No sensitizing effects known No known effects No classification data on carcinogenic properties of this material is available from EPA, IARC, NTP, OSHA or ACGIH. No effects known: No effects known No effects known No known effects No known effects To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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Section 12: Ecologi	ical Information	
Toxicity		
Aquatic toxicity:	No other further information available.	
Persistence and degr	radability: No other further information available.	
Bioaccumalative pot	tential: No other further information available.	
Mobility in soil:	No other further information available.	
Additional Ecological	l information	
General Cautions:		
Do not allow materia	al to be released to the environment without proper governmental permits.	
Do not allow undilute	ed or large quantities of material to reach ground water, water course, or sewage	system.
Avoid transfer into th	he environment.	
Results of PBT and v	PvB assessment:	
PBT:	Not Applicable	
vBvB:	Not Applicable	
Other adverse effect	s No further relevant information available	
Recommendations: Uncleaned packaging	gs:	
Recommendations:	Consult state, local or national regulations to ensure proper disposal.	
Uncleaned packaging Recommendation:	gs: Disposal must be made according to official regulations.	
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Safety, health and environmental regulations/legislation specific for substance or mixture			
GHS Label Elements:	Not Applicable		
Hazard Pictograms:	Not Applicable		
Signal Word:	Not Applicable		
Hazard Statements:	Not Applicable		
National:	All components are Listed in the US (EPA) Toxic		
	Substances Control Act Chemical substance inventory.		

All components are Listed on the Canadian Domestic Substances List (DSL)

SARA Section 313 (Specific Toxic Chemical Listings): California Proposition 65:	Substance is no	t listed.
Prop 65- Chemicals known to cause cancer:	Substance is no	t listed
Prop 65- Developmental toxicity,	Substance is no	t listed
Prop 65- Developmental toxicity, female	Substance is no	t listed
Prop 65- Developmental toxicity, male	Substance is no	t listed
Information about limitation of use:	For use only by	technically qualified individuals.
Substance of Very High Concern (SVHC) According to REACH Regulations (EC) No. 1907/2006:		Substance is not listed
The conditions and restrictions according to Article 67 and Annex XVII of Substance is not listed the Regulation (EC) No. 1907/2006 (REACH) for manufacturing, placing on the market use must be observed.		
Annex XIV of the REACH Regulations (requiring Authorizat	ion for use):	Substance is not listed
Chemical Safety Assessment		A chemical Safety Assessment has not been carried out

Section 16: Other Information

This Safety Data Sheet (SDS) is intended to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Full text of other abbreviations

ACGIH:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-2:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
US WEEL:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA:	8-hour, time-weighted average
ACGIH / STEL:	Short-term exposure limit
NIOSH REL/TWA:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL/ST:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA:	8-hour time weighted average
OSHA Z-2/TWA:	8-hour time weighted average
OSHA Z-2/CEIL:	Acceptable ceiling concentration
OSHA Z-2/Peak:	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift
US WEEL/TWA:	8-hr TWA

AICS - Australian Inventory of Chemical Substances;

AIIC - Australian Inventory of Industrial Chemicals;

ASTM - American Society for the Testing of Materials;

bw - Body weight;

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act;

CMR - Carcinogen, Mutagen or Reproductive Toxicant;

- DIN Standard of the German Institute for Standardization;
- DOT Department of Transportation;
- DSL Domestic Substances List (Canada);
- ECx Concentration associated with x% response;
- EHS Extremely Hazardous Substance;
- ELx Loading rate associated with x% response;

EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; **KECI - Korea Existing Chemicals Inventory;** LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Level, NO(A)EL - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; Discontinuative and Toxic substance; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; RTECS - Registry of Toxic Effects off Chemical Substances; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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