# Heegermaterials

## SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 10

	1. Identification	
Product Name	Iron Powder	
CAS No	7439-89-6	
Synonyms	Iron Dust; Iron Metal; Iron Powder.	
Recommended Use	Laboratory chemicals.	
Uses advised against	Food, drug, pesticide or biocidal product use.	

### Details of the supplier of the safety data sheet

Company Heeger Materials Inc. 230 Steele St Denver CO 80206 United States Tel: 925-385-8104

**Emergency Telephone Number** 

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

#### Classification

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

Flammable solids

Category 1

#### Label Elements

Signal Word Danger

Hazard Statements Flammable solid



#### Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Wear protective gloves/protective clothing/eye protection/face protection **Fire** In case of fire: Use CO2, dry chemical, or foam for extinction **Hazards not otherwise classified (HNOC)** None identified

3. Composition/Information on Ingredients								
Component		CAS No 7439-89-6	<u>Weight %</u> <= 100					
	Iron 7439-89-6 <= 100							
6	Pr4.	First-aid measures						
General Advice	If symptoms	If symptoms persist, call a physician.						
Eye Contact	Rinse immeo medical atter		the eyelids, for at least 15 minutes. Get					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.							
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.							
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.							
Most important symptoms and effects	None reasonably foreseeable.							
Notes to Physician	Treat symptomatically							
	5. Fi	re-fighting measures						
Suitable Extinguishing Media	guishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO <sub>2</sub> , water spray or alcohol-resistant foam.							
Unsuitable Extinguishing Media	No informatio	on available						
Flash Point Method -	No information No information							
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

Keep product and empty container away from heat and sources of ignition.

#### **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.

<u>NFPA</u> Health 2	Flammability	Instability	Physical hazards
2	L	0	IV/A
		lease measures	
Personal Precautions	Ensure adequate ventilation	on. Use personal protective equ	ipment as required. Avoid dust
Environmental Precautions	Should not be released in	to the environment.	
Methods for Containment and Cle Up	ean Sweep up and shovel into containers for disposal.	suitable containers for disposal	. Keep in suitable, closed
	7. Handling	and storage	
Handling		equipment/face protection. Ensu clothing. Avoid ingestion and in	ure adequate ventilation. Do not halation. Avoid dust formation.
Storage.	Keep containers tightly clo	sed in a dry, cool and well-vent	lated place.
8.	Exposure controls	/ personal protection	on
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	
		<b>A</b>	n <sub>c</sub>
Engineering Measures	Ensure adequate ventilation	on, especially in confined areas.	
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective OSHA's eye and face protection EN166.	ve eyeglasses or chemical safet ection regulations in 29 CFR 19	y goggles as described by 10.133 or European Standard
Skin and body protection	Wear appropriate protectiv	ve gloves and clothing to prever	t skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MS	or regulations found in 29 CFR <sup>-</sup> SHA or European Standard EN <sup>-</sup> ded or if irritation or other sympt	
Hygiene Measures	Handle in accordance with	n good industrial hygiene and sa	fety practice.
	9. Physical and ch	nemical properties	
Physical State Appearance		Solid Dark grey	

Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	1535.00 °C / 2795 °F
Boiling Point/Range	3000 - 2861 °C / 5432 - 5181.8 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 1787 °C
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	Fe
Molecular Weight	55.84

## 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	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information
Acute Toxicity	

Acute Toxicity

### **Product Information**

Component Informa							
Componen	t	LD50 Oral	050 Oral LD50 D		LC50 li	nhalation	
Iron		LD50 = 30 g/kg ( Rat ) Not listed Not listed					
Toxicologically Syn Products Delayed and immed	-	No information ava		d long-term expo	osure_		
Irritation		No information available					
Sensitization		No information available					
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient a	s a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Iron	7439-89-6	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				

Reproductive Effects	No information available.								
Developmental Effects	No information available.								
Teratogenicity	No information available.								
STOT - single exposure STOT - repeated exposure	lone known Ione known								
Aspiration hazard	lo information available								
Symptoms / effects,both acute and delayed	No information available								
Endocrine Disruptor Information	No information available								
Other Adverse Effects	The toxicological properties have not been fully investigated.								
	12. Ecological information								
Ecotoxicity Contains a substance which is:. Harm the environment.	ful to aquatic organisms. The product contains following substances which are hazardous for								
Persistence and Degradability	Insoluble in water								
Bioaccumulation/ Accumulation	No information available.								
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 Hazard Class Packing Group TDG	UN3089 METAL POWDERS, FLAMMABLE, N.O.S. 4.1 III								
Proper Shipping Name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group									
Proper Shipping Name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group <u>IATA</u> UN-No Proper Shipping Name Hazard Class Packing Group	III UN3089 METAL POWDERS, FLAMMABLE, N.O.S. 4.1								
Proper Shipping Name Hazard Class Packing Group <u>TDG</u> UN-NO Proper Shipping Name Hazard Class Packing Group <u>IATA</u> UN-NO Proper Shipping Name Hazard Class	III UN3089 METAL POWDERS, FLAMMABLE, N.O.S. 4.1 II/ UN3089 METAL POWDERS, FLAMMABLE, N.O.S. 4.1								

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Iron	7439-89-6	Х	ACTIVE	-

Legend:

**TSCA** US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Iron	7439-89-6	Х	-	231-096-4	Х	Х		Х	Х	KE-21059

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable Not applicable This product does not contain any Proposition (E-shemicals
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available
Authorisation/Restrictions accordin	g to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Iron	7439-89-6	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Notification	Requirements		
Iron	7439-89-6	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

s Safety Data Sh. rmation given is design lease and is not to be considered and may not be ness specified in the text End of SDS 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 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

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