

SAFETY DATA SHEET

Creation Date 12-Oct-2010

Revision Date 29-Mar-2024

Revision Number 3

 1. Identification

 Product Name
 Iron slug

 Cat No. :
 42385

 CAS No
 7439-89-6

 Synonyms
 7439-89-6

 Iron Metal
 Laboratory chemicals.

 Recommended Use
 Laboratory chemicals.

 Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **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)

Combustible dust

Yes

Label Elements

Signal Word Warning

Hazard Statements May form combustible dust concentrations in air

Precautionary Statements Storage

Store in a well-ventilated place. Keep container tightly closed Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients							
Component		CAS No	Weight %				
lron		7439-89-6	>95				
	Λ	First aid messures					
	4.	First-aid measures					
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention. medical attention.							
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.							
Inhalation	Remove to fresh air. Get medical attention immediately 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. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
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Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable 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

Combustible material. Fine dust dispersed in air may ignite.

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.

NFPA						
	Health	Flammability	Instability	Physical hazards		
	0	0	1	N/A		

	6. Accidental release measures					
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.					
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system.					
Methods for Containment and Clea Up	n Sweep up and shovel into suitable containers for disposal. Avoid dust formation.					
	7. Handling and storage					
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.					
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong acids. Strong oxidizing agents.					
8. E	xposure controls / personal protection					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					
Engineering Measures	None under normal use conditions.					
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	No protective equipment is needed under normal use conditions.					
Recommended Filter type:	Particle filter.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.					

9	P. Physical and chemical properties
Physical State	Solid
Appearance	Dark grey
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	1535 °C / 2795 °F
Boiling Point/Range	2750 °C / 4982 °F @ 760 mmHg
Flash Point	Not applicable
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
Density	7.86 @ 20°C
Specific Gravity	No information available
Solubility	Insoluble in water

Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight No data available No information available No information available Not applicable Fe 55.84

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Moisture sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Exposure to moisture.
Incompatible Materials	Strong acids, Strong oxidizing agents
Hazardous Decomposition Product	s None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component		LD50 Oral		LD50 Dermal		Inhalation			
Iron			7500 mg/kg (Rat) Not listed Not listed						
oxicologically Syn oducts	-	No information ava		d long-term expr	NSURA				
slayed and initied	late effects								
ritation		No information ava	ailable						
ensitization		No information ava	ailable						
arcinogenicity		The table below inc	dicates whether e	ach agency has lis	ted any ingredient	as a carcinog			
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Iron	7439-89-0	6 Not listed	Not listed	Not listed	Not listed	Not listed			
utagenic Effects		No information ava	ailable						
eproductive Effect	S	No information ava	ailable.						
evelopmental Effe	cts	No information ava	No information available.						
eratogenicity		No information ava	No information available.						
STOT - single exposure STOT - repeated exposure		None known None known							
spiration hazard		No information ava	No information available						
Symptoms / effects,both acute and delayed		and No information ava	No information available						
	r Informatio		No information available						

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Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

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	Not regulated					
DOT TDG	Not regulated					
ΙΑΤΑ	Not regulated					
IMDG/IMO	Not regulated					
	15 Regulatory information					

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

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TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.		
U.S. State Right-to-Know Regulations	Not applicable		
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

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Iron	7439-89-6	-	-	-

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

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Iron	7439-89-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com

Creation Date Revision Date Print Date Revision Summary 12-Oct-2010 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.

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 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