GX1889 v3.0



Safety Data Sheet

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According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

	According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878		
1.	Identification of the substance/mixture and of the company/undertaking		
1.1	Product identifier	oduct identifier	
	Product name : Iron CAS number : 743 EINECS : 231 Physical form : solid REACH : A re are	1889 n Powder, 99.99+% 19-89-6 -096-4 d, substance egistration number is not available for this substance as the substance or its uses exempted from registration, the annual tonnage does not require a registration or registration is envisaged for a later registration deadline.	
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised against		
	PC21: Laboratory chemicals.		
1.3	Details of the supplier of the	safety data sheet	
	Unit	ntham Life Sciences LtdTelephone:+44 (0) 1225 667 798t 5 Leafield WayFax:+44 (0) 2033 978 909rsham SN13 9SWEmail:info@glentham.comted KingdomWeb:www.glentham.com	
1.4	Emergency telephone number	er	
	Emergency telephone : NHS number	S Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)	
2.	Hazards identification		
2.1	Classification of the substan	assification of the substance or mixture	
	Classification under CLP according	to (EC) 1272/2008	
	H228 Flam.	Sol. 1	
2.2	Label elements		
	Label elements under CLP according	g to (EC) 1272/2008	
	Pictograms	GHS02	
	Signal words Hazard statements	Danger	
	H228	Flammable solid	
	Precautionary statements P210 P241	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking. Use explosion-proof electrical equipment.	
2.3	Other hazards		
	рвт This substance is not identifie	ed as a PBT substance.	
3.0	Composition/information on	ingredients	
3.1	Substances		
	N		

Name	Identifier	%	Classification
Iron Powder, 99.99+%	CAS: 7439-89-6 EC: 231-096-4 REACH: Not applicable	99.99%	H228, Flam. Sol. 1

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4. First aid measures

4.1

Description of first aid measures			
Skin contact	Consult a doctor. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin.		
Eye contact	Consult a doctor. Bathe the eye with running water for 15 minutes.		
Ingestion	Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately.		
Inhalation	Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.		

4.2 Most important symptoms and effects, both acute and delayed

Skin contact There may be mild irritation at the site of contact.	
Eye contact There may be irritation and redness.	
Ingestion	There may be irritation of the throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting.

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture.

5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

6.1

Eliminate all sources of ignition. Notify the police and fire brigade immediately. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Clean-up procedures

Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4 Reference to other sections

Refer to section 8 of SDS.

7. Handling and storage

7.1 Precautions for safe handling

Handling requirements

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Avoid the formation or spread of dust in the air. Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. Store in cool, well ventilated area.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

No workplace exposure limit control parameters set

8.2 Exposure controls

Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. Ensure there is sufficient ventilation of the area.
Respiratory protection	Respiratory protective device with particle filter.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Grey
Odour	No data available.
Melting point/Freezing point	1535 °C
Boiling point/initial boiling point/boiling range	3000 °C
Flammability	Flammable solid
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	7.860
Relative vapour pressure	No data available.
Particle characteristics	No data available.

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

^{10.2} Chemical stability

Stable at room temperature. Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

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Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

Incompatible materials

Materials to avoid

10.5

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

- 11.1 Information on toxicological effects
- a) Acute toxicity No data available.
- b) Skin corrosion/irritation
 - No data available.
- c) Serious eye damage/irritation No data available.
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicity No data available.
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.

j) Aspiration hazardNo data available.

Symptoms / routes of exposure

Skin contact There may be mild irritation at the site of contact.	
Eye contact	There may be irritation and redness.
Ingestion	There may be irritation of the throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure.
Other information	No data available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.

11.2.2 Other information

No additional information

12. Ecological information

12.1 Toxicity

48 hr EC50 Dinoflagellate (Gymnodinium splendens): 17.5 mg/L

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12.2	Persistence and degradability
	Biodegradable.
12.3	Bioaccumulative potential
	No bioaccumulation potential.
12.4	Mobility in soil
	Readily absorbed into soil.
12.5	Results of PBT and vPvB assessment
	This substance is not identified as a PBT substance.
12.6	Endocrine disrupting properties
	This substance is not identified as having endocrine disrupting properties
12.7	Other adverse effects
	No data available.
13.	Disposal considerations
13.1	Waste treatment methods
	Disposal operations
	Transfer to a suitable container and arrange for collection by specialised disposal company.

NB

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN3089	UN3089	UN3089	UN3089	UN3089
14.2. UN proper shipping nan	ne			
METAL POWDER, FLAMMABLE, N.O.S.	METAL POWDER, FLAMMABLE, N.O.S.	Metal powder, flammable, n.o.s.	METAL POWDER, FLAMMABLE, N.O.S.	METAL POWDER, FLAMMABLE, N.O.S.
Transport document descript	tion			
UN3089 METAL POWDER, FLAMMABLE, N.O.S. (IRON POWDER, 99.99+%), 4.1, III	UN3089 METAL POWDER, FLAMMABLE, N.O.S. (IRON POWDER, 99.99+%), 4.1, III	UN3089 Metal powder, flammable, n.o.s. (Iron Powder, 99.99+%), 4.1, III	UN3089 METAL POWDER, FLAMMABLE, N.O.S. (IRON POWDER, 99.99+%), 4.1, III	UN3089 METAL POWDER, FLAMMABLE, N.O.S (IRON POWDER, 99.99+%), 4.1, III
14.3. Transport hazard class(es)			
4.1	4.1	4.1	4.1	4.1
14.4. Packing group				
III	III	III	Ш	III
14.5. Environmental hazards				
No	No	No	No	No

15. Regulatory information

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

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:	No data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances:	No data available.
Regulation (EC) 1005/2009 on substances that deplete the ozone layer:	No data available.
Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:	No data available.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. Other information

H-Statement Full Texts

H228 Flammable solid

Abbreviations Full Texts

~	bieviations i un	TEXES
	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
	ALARP	As low as is reasonably practicable
	CAS	Chemical Abstracts Service
	CLP	Classification, Labelling and Packaging Regulations
	COSHH	Control of Substances Hazardous to Health
	EC Number	European Community Number
	EC50	Effective Concentration 50%
	EILINCS	European List of Notified Chemical Substances
	EINECS	European Inventory of Existing Commercial Chemical Substances
	GHS	Globally Harmonised System
	HSE	Health & Safety Executive UK
	IATA	International Air Transport Association
	IM	Intramuscular
	IMDG	The International Maritime Dangerous Goods Code
	IP	Intraperitoneal
	IV	Intravascular
	LD50	Lethal Dose 50%
	LOEC	Lowest Observable Effective Concentration
	LTEL	Long Term Exposure Limit
	NOEC	No Observable Effective Concentration
	OECD	Organisation for Economic Cooperations and Development
	PBT	Persistent Bioaccumulative Toxic
	PPE	Personal Protective Equipment
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
	RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
	SC	Subcutaneous
	SDS	Safety Data Sheet
	STEL	Short Term Exposure Limit
	STOT	Specific Target Organ Toxicity
	VOC	Volatile Organic Compounds
	vPvB	Very Persistent and Very Bioaccumulative
	WEL	Workplace Exposure Limits

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.

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