GX5462 v2.0



## Safety Data Sheet

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	According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878					
1.	Identification of the substance/mixture and of the company/undertaking					
1.1	.1 Product identifier					
	CAS number : 744 Physical form : soli REACH : A re are	5462 enium Powder max. 10 micron, 99.99% 40-15-5 id, 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	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				
	Uni Cor	Instant Life Sciences Ltd Telephone : +44 (0) 1225 667 798   it 5 Leafield Way Fax : +44 (0) 2033 978 909   rsham SN13 9SW Email : info@glentham.com   ited Kingdom Web : www.glentham.com				
1.4	Emergency telephone numb	er				
	Emergency telephone : NH	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	ice or mixture				
	Classification under CLP according	to (EC) 1272/2008				
	H228 Flam.	Sol. 1				
2.2	Label elements					
	Label elements under CLP according to (EC) 1272/2008					
	Pictograms	GHS02				
	Signal words Hazard statements	Danger				
	H228	Flammable solid				
	Precautionary statements P210 P240 P241 P280 P370+P378	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking. Ground/bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting//] equipment. Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Use to extinguish.				
2.3	Other hazards					
	PBT					
	This substance is not identified as a PBT substance.					
3.0	Composition/information on	ingredients				
3.1	Substances					

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**4.** 4.1

4.2

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Name		Identifier	%	Classification
Rhenium Powder ma	ax. 10 micron, 99.99%	CAS: 7440-15-5 EC: REACH: Not applicable	99.99%	H228, Flam. Sol. 1
irst aid measures				
Description of first aid	d measures			
Skin contact			•	for 10 minutes or longer if substance is imediately unless stuck to skin.
Eye contact	Consult a doctor. Bathe	the eye with running wa	ter for 15 minu	utes.
Ingestion	Consult a doctor. Do no	t induce vomiting. If cons	scious, give ha	alf a litre of water to drink immediately.
Inhalation	Remove casualty from e	exposure ensuring one's	own safety wł	nilst doing so. Consult a doctor.
lost important symp	toms and effects, both acı	ite and delayed		
Skin contact	There may be mild irrita	tion at the site of contac	t.	
Eye contact	There may be irritation a	and redness.		
Ingestion	There may be irritation of	of the throat.		
Inhalation	There may be irritation of	of the throat with a feelin	g of tightness	in the chest.
Delayed / immediate	Delaward offersterious has	expected after long-term		

#### 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

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal precautions

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.

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#### 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling requirements

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 Sol	lid
Colour Gre	еу
Odour No	data available.
Melting point/Freezing point 318	85 °C
Boiling point/initial boiling point/boiling range No	data available.
Flammability Nor	n flammable
Lower/Upper explosion limit No	data available.
Flash Point No	data available.
Auto-ignition temperature 280	0°C
Decomposition temperature No	data available.
pH 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 20.	900
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.

<sup>10.2</sup> Chemical stability



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Stable at room temperature. Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

#### Hazardous reactions

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

#### <sup>10.4</sup> Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

#### <sup>10.5</sup> Incompatible materials

#### Materials to avoid

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 hazard
  - No data available.

#### 11.2 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.
Ecological informatio	n

<sup>12.1</sup> Toxicity

12.

No data available.

#### 12.2 Persistence and degradability

Biodegradable.

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Bioaccumulative potentia				
No bioaccumulation pote				
Mobility in soil				
Readily absorbed into so	il.			
Results of PBT and vPvE				
	ntified as a PBT substanc	e.		
Endocrine disrupting pro	operties			
This substance is not ide	-	e disrupting properties		
Other adverse effects	Ũ			
No data available.				
Disposal considerations				
Waste treatment method	s			
Disposal operations				
Transfer to a suitable cor	tamer and analige for co	needon by specialised dis	posar company.	
	awn to the possible existe	nce of regional or national	al regulations regarding dis	sposal
	and to the possible existe			
Transport information				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN3089	UN3089	UN3089	UN3089	UN3089
UN3089 14.2. UN proper shipping nam		UN3089	UN3089	UN3089
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15. Regulatory information

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

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This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

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

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
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) 2020/787.

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