GP3145 v2.0



### 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			
Identification of the substance/mixture and of the company/undertaking					
I	Product identifier				
	CAS number : 155 Physical form : soli REACH : A re are	3145 odronate hydrate i648-60-5 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.			
2	Relevant identified uses of the substance or mixture and uses advised against				
	PC21: Laboratory chemicals.				
	Details of the supplier of the	safety data sheet			
	Uni Cor	ntham Life Sciences Ltd       Telephone       :       +44 (0) 1225 667 798         t 5 Leafield Way       Fax       :       +44 (0) 2033 978 909         rsham SN13 9SW       Email       :       info@glentham.com         ted Kingdom       Web       :       www.glentham.com			
ı	Emergency telephone numb	er			
	Emergency telephone : NH number	S Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)			
	Hazards identification				
	Classification of the substance or mixture				
	Classification under CLP according				
	Classification under CLP accordingH301AcuteH361Repr.	to (EC) 1272/2008 Tox. 3			
2	H301 Acute	to (EC) 1272/2008 Tox. 3			
2	H301 Acute H361 Repr.	to (EC) 1272/2008 Tox. 3 2			
1	H301 Acute H361 Repr. Label elements	to (EC) 1272/2008 Tox. 3 2			
	H301 Acute H361 Repr. Label elements Label elements under CLP accordin Pictograms	to (EC) 1272/2008 Tox. 3 2 g to (EC) 1272/2008			
:	H301 Acute H361 Repr Label elements Label elements under CLP accordin Pictograms	to (EC) 1272/2008 Tox. 3 2 g to (EC) 1272/2008 $\overbrace{GHS06}^{O}GHS08$ GHS08			
2	H301 Acute H361 Repr. Label elements Label elements under CLP accordin Pictograms Signal words Hazard statements H301 H361 Precautionary statements P201 P261 P261 P281 P301+P310 P308+P313	to (EC) 1272/2008 Tox. 3 2 g to (EC) 1272/2008 $\overbrace{OHS06}^{O}GHS08$ Danger Toxic if swallowed Suspected of damaging fertility or the unborn child Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. IF SWALLOWED: Immediately call a POISON CENTER/doctor/ IF exposed or concerned: Get medical advice/attention.			
:	H301 Acute H361 Repr. Label elements Label elements under CLP accordin Pictograms Signal words Hazard statements H301 H361 Precautionary statements P201 P261 P281 P301+P310	to (EC) 1272/2008 Tox. 3 2 g to (EC) 1272/2008 $\overbrace{O}$ GHS06 $\overbrace{O}$ GHS08 Danger Toxic if swallowed Suspected of damaging fertility or the unborn child Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. IF SWALLOWED: Immediately call a POISON CENTER/doctor/			
	H301 Acute H361 Repr. Label elements Label elements under CLP accordin Pictograms Signal words Hazard statements H301 H361 Precautionary statements P201 P261 P261 P281 P301+P310 P308+P313 P264	to (EC) 1272/2008 Tox. 3 2 g to (EC) 1272/2008 $\overbrace{OHS06}^{O}GHS08$ Danger Toxic if swallowed Suspected of damaging fertility or the unborn child Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. IF SWALLOWED: Immediately call a POISON CENTER/doctor/ IF exposed or concerned: Get medical advice/attention.			
	H301 Acute H361 Repr. Label elements Label elements under CLP accordin Pictograms Signal words Hazard statements H301 H361 Precautionary statements P201 P261 P261 P281 P301+P310 P308+P313 P264 Other hazards	to (EC) 1272/2008 Tox. 3 2 g to (EC) 1272/2008 $\overbrace{OHSO6}^{O}GHSO8$ Danger Toxic if swallowed Suspected of damaging fertility or the unborn child Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. IF SWALLOWED: Immediately call a POISON CENTER/doctor/ IF exposed or concerned: Get medical advice/attention. Do not breathe fume.			

3.1 Substances

**4.** 4.1

4.2

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Name		Identifier	%	Classification	
Minodronate hydrate		CAS: 155648-6 EC: REACH: Not applicable	0-5	H301, Acute Tox. 3 H361, Repr. 2	
irst aid measures					
Description of first	aid measures				
Skin contact	Remove all contami	5	ear immediatel	or longer if substance is still on skin. y unless stuck to skin. Transfer to hospital	
Eye contact	Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.				
Ingestion	Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious a breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artific respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.				
Inhalation	ensure the casualty position. If unconsci	sits or lies down. If unco ous, check for breathing	onscious and br and apply artif	vide oxygen if available. If conscious, reathing is OK, place in the recovery icial respiration if necessary. Remove ping so. Transfer to hospital as soon as	
lost important syn	nptoms and effects, both	n acute and delayed			
Skin contact		the skin may be fatal. Irr ness of the skin in the a		nay occur at the site of contact. There may e.	
Eye contact	The eyes may wate	r profusely. There may b	e severe pain.		
Ingestion	Convulsions may occur. There may be loss of consciousness. There may be soreness and redn of the mouth and throat. There may be vomiting.		ss. There may be soreness and redness		

 
 Delayed / immediate effects
 Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be

may occur. There may be loss of consciousness. There may be shortness of breath with a burning

loss of consciousness.

### 4.3 Indication of any immediate medical attention and special treatment needed

### Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2 Special hazards arising from the substance or mixture

#### Exposure hazards

In combustion emits toxic fumes. Toxic.

### 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

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Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Evacuate the area immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Notify the police and fire brigade immediately.

### 6.2 Environmental precautions

Alert the neighbourhood to the presence of fumes or gas. Do not discharge into drains or rivers.

### 6.3 Methods and material for containment and cleaning up

### Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4 Reference to other sections

Refer to section 8 of SDS.

### 7. Handling and storage

### 7.1 Precautions for safe handling

### Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Ensure there is exhaust ventilation of the area.

### 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Avoid contact with water or humidity. Keep container tightly closed. 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 there is exhaust ventilation of the area.
Respiratory protection	Particle filter class P1 (EN143). Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Protective gloves.
Eye protection	Ensure eye bath is to hand. Safety glasses with side-shields.
Skin protection	Protective clothing.

.....

### 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	White
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	No data available.
Flammability	No data available.
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.

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Density/relative density Relative vapour pressure Particle characteristics

### 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 under normal conditions.

### <sup>10.3</sup> 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.

No data available. No data available.

No data available.

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

Flames. Hot surfaces. Heat.

### Incompatible materials

Materials to avoid

10.5

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 toxicityReproductive toxicity (Category 2)

### 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	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact

The eyes may water profusely. There may be severe pain.

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Ingestion	Convulsions may occur. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.
Delayed / immediate effects	Convulsions may occur. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.
Other information	No data available.
Ecological information	on
Toxicity	
No data available.	
Persistence and deg	radability
Biodegradable.	
Bioaccumulative pot	ential
No bioaccumulation	potential.
Mobility in soil	
Readily absorbed inte	o soil.
Results of PBT and v	/PvB assessment
This substance is not	t identified as a PBT substance.
Endocrine disrupting	g properties
This substance is not	t identified as having endocrine disrupting properties
Other adverse effect	S
No data available.	
Disposal considerati	ons
Waste treatment met	thods

### 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				
UN2811	UN2811	UN2811	UN2811	UN2811
14.2. UN proper shipping na	ime			
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
Transport document descri	ption			
UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MINODRONATE HYDRATE), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MINODRONATE HYDRATE), 6.1, III	UN2811 Toxic solid, organic, n.o.s. (Minodronate hydrate), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MINODRONATE HYDRATE), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (MINODRONATE HYDRATE), 6.1, III

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14.3. Transport hazar	rd class(es)				
6.1	6.1	6.1	6.1	6.1	
6	6	6	6		
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental I	hazards				
No	No	No	No	No	

### 15. Regulatory information

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) 2020/787.

Authorisations/Res	trictions	
Regulation (E authorisation	EC) 1907/2006, REACH, Annex XIV list of substances subject to	No data available.
0 (	EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing t and use of certain dangerous substances:	No data available.
Regulation (B	EC) 1005/2009 on substances that deplete the ozone layer:	No data available.
Regulation (E 2019/1021:	EC) 850/2004 on persistent organic pollutants, amended by (EU) No	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
H301	Toxic if swallowed
H361	Suspected of damaging fertility or the unborn child
Abbreviations Fu	II 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

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REACH RID	Registration, Evaluation, Authorisation and Restriction of Chemicals 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

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