GP2747 v2.0



### Safety Data Sheet

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

#### Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

1.

Product code	: GP2747
Product name	: Metformin hydrochloride
CAS number	: 1115-70-4
EINECS	: 214-230-6
Physical form	: solid, substance
REACH	: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the 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

Company name	:	Glentham Life Sciences Ltd	Telephone	:	+44 (0) 1225 667 798
		Unit 5 Leafield Way	Fax	:	+44 (0) 2033 978 909
		Corsham SN13 9SW	Email	:	info@glentham.com
		United Kingdom	Web	:	www.glentham.com

#### 1.4 Emergency telephone number

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under	r CLP according to (EC) 1272/2008
H302	Acute Tox. 4
H315	Skin Irr 2

H315	Skin Irr. 2
H319	Eye Irr. 2A

#### 2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

#### Pictograms



Signal words	Warning
Hazard statements	
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Precautionary statements	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P264	Do not breathe fume.
Other hazards	
РВТ	

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

#### 3.1 Substances

2.3

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**4.** 4.1

4.2

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Name		Identifier	%	Classification
Metformin hydroch	oride	CAS: 1115-70-4 EC: 214-230-6 REACH: Not applicable	98.0%	H302, Acute Tox. 4 H315, Skin Irr. 2 H319, Eye Irr. 2A
irst aid measures				
Description of first a	id measures			
Skin contact	still on skin. Remove	all contaminated clothes a	nd footwear ir	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng. Wash immediately with plenty of
Eye contact	Consult a doctor. Tra 15 minutes.	nsfer to hospital for special	ist examinatio	on. Bathe the eye with running water for
Ingestion		athing is OK, place in the re		alf a litre of water to drink immediately. If on. Transfer to hospital as soon as
Inhalation	ensuring one's own s	afety whilst doing so. Trans		ition. Remove casualty from exposure al as soon as possible. Consult a doctor.
Skin contact	ptoms and effects, both There may be irritation	on and redness at the site c	f contact.	
Eye contact	The eyes may water	profusely. There may be in	itation and re	dness. There may be pain and redness.
Ingestion	convulsions. Severe rapid gasping breathi	poisoning can cause vision	to be blurred s and redness	cause shock, unconsciousness and or blindness, severe headache and s of the mouth and throat. Severe stent nausea and vomiting.
Inhalation	may cause coughing	or wheezing. Nausea and ng of tightness in the chest	stomach pain	milar to those of ingestion. Exposure may occur. There may be irritation of se shortness of breath with a burning
Delayed / immediate	Immediate effects ca			

#### 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. Eye bathing equipment should be available on the premises.

#### 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. 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. 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

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. Do not handle in a confined space. Ensure there is sufficient 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 sufficient ventilation of the area.
Respiratory protection	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. Safety glasses.
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	216 °C
Boiling point/initial boiling point/boiling range	No data available.
Flammability	Non flammable
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.

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Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
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.

#### <sup>10.2</sup> 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. 352 g/L @ 20 °C No data available. No data available. No data available. No data available. No data available.

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

Heat.

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

#### Materials to avoid

Strong acids. Strong oxidising agents.

#### **11.** Toxicological information

<sup>11.1</sup> Information on toxicological effects

#### a) Acute toxicity

No data available.

#### b) Skin corrosion/irritation Skin corrosion/irritation (Category 2)

#### c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 2A)

- 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.
- Aspiration hazardNo data available.

#### <sup>11.2</sup> Symptoms / routes of exposure

Skin contact

There may be irritation and redness at the site of contact.

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Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness
Ingestion	Nausea and stomach pain may occur. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.
Other information	No data available.
Ecological information	ation
Toxicity	
No data available.	
Persistence and d	egradability
Biodegradable.	
Bioaccumulative p	ootential
No bioaccumulatio	n potential.
Mobility in soil	
Readily absorbed i	nto soil.
Results of PBT and	d vPvB assessment
This substance is r	not identified as a PBT substance.
Endocrine disrupt	ing properties
This substance is r	not identified as having endocrine disrupting properties
Other adverse effe	icts
No data available.	
Disposal consider	ations
Waste treatment m	nethods
Disposal operations	
Transfer to a suital	ble container and arrange for collection by specialised disposal company.
Transfer to a suital	ble container and arrange for collection by specialised disposal company. n is drawn to the possible existence of regional or national regulations regarding disposal.
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#### 15.2 Chemical safety assessment

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

Other informatio	
H-Statement Full	Texts
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Abbreviations Fu	ıll 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.

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.