GX2655 v2.1



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	: GX2655
Product name	: Gallium(III) nitrate hydrate
CAS number	: 69365-72-6
EINECS	: 236-815-5
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 CLP according to (EC) 1272/2008

H272	Ox. Sol. 2
H315	Skin Irr. 2
H319	Eye Irr. 2A
H335	STOT SE 3

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H272	May intensify fire: oxidizer
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
Precautionary statement	ts
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P220	Keep away from clothing and other combustible materials.
P261	Avoid breathing dust.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and
	easy to do - continue rinsing.
P362+P364	Take off contaminated clothing and wash before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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2.3 Other hazards

РВТ

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification	
Gallium(III) nitrate hydrate	CAS: 69365-72-6 EC: 236-815-5 REACH: Not applicable	99.9%	H272, Ox. Sol. 2 H315, Skin Irr. 2 H319, Eye Irr. 2A H335, STOT SE 3	

4. First aid measures

4.1 Description of first aid measures

Skin contact	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. Transfer to hospital
	if there are burns or symptoms of poisoning. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. 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. I
	unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	Transfer to hospital as soon as possible. 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 irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Ingestion	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	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

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

Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards



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In combustion emits toxic fumes. Oxidising. 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

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. Remove all incompatible materials as outlined in section 10 of SDS. 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. Avoid incompatible materials and conditions - see section 10 of SDS. 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. 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	Safety glasses with side-shields. 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	Colourless
Odour	No data available.

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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.
Density/relative density	No data available.
Relative vapour pressure	No data available.
Particle characteristics	No data available.
ther information	

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.

^{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.

^{10.4} Conditions to avoid

Heat.

^{10.5} Incompatible materials

Materials to avoid

Organic materials. Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 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
 Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)
- i) STOT-repeated exposure



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No data available.

j) Aspiration hazard

12. 12.1

12.2

12.3

12.4

12.5

12.6

12.7

13. 13.1

14.

No data available.

11.2 Symptoms / routes of exposure

14.1. UN number							
ADR	IMDG	ΙΑΤΑ	ADN	RID			
Transport information	i						
		SIC CARGENCE OF TEGIOLIDI	or national regulations leg	arang usposal.			
NB The user's attention is	drawn to the possil	ble existence of regional	or national regulations reg	arding disposal			
	container and arran	ge for collection by speci	alised disposal company.				
Disposal operations		, , , , , , ,					
Waste treatment meth	iods						
Disposal consideratio	ins						
No data available.							
Other adverse effects							
This substance is not	identified as having	endocrine disrupting pro	perties				
Endocrine disrupting	properties						
This substance is not	identified as a PBT	substance.					
Results of PBT and vi							
Readily absorbed into	soil.						
Mobility in soil							
No bioaccumulation p	otential.						
Bioaccumulative pote	ntial						
Biodegradable.							
Persistence and degra	adability						
No data available.							
Toxicity							
Ecological informatio	1						
Other information	No data available	۱ <u>.</u>					
	short-term exposi						
Delayed / immediate effects			g-term exposure. Immedia	te effects can be expected after			
Inhalation	may cause cough	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 separation in the throat.					
Ingestion	vision to be blurre soreness and red severe and persis	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.					
Eye contact	The eyes may wa	ater profusely. There may	be irritation and redness.	There may be pain and redness			
Skin contact	There may be irrit contact.	tation and redness at the	site of contact. There may	y be mild irritation at the site of			

UN1477

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14.2. UN proper shipping nar	ne			
NITRATES, INORGANIC, N.O.S.	NITRATES, INORGANIC, N.O.S.	Nitrates, inorganic, n.o.s.	NITRATES, INORGANIC, N.O.S.	NITRATES, INORGANIC, N.O.S
Transport document descrip	tion			
UN1477 NITRATES, INORGANIC, N.O.S. (GALLIUM(III) NITRATE HYDRATE), 5.1, II	UN1477 NITRATES, INORGANIC, N.O.S. (GALLIUM(III) NITRATE HYDRATE), 5.1, II	UN1477 Nitrates, inorganic, n.o.s. (Gallium(III) nitrate hydrate), 5.1, II	UN1477 NITRATES, INORGANIC, N.O.S. (GALLIUM(III) NITRATE HYDRATE), 5.1, II	UN1477 NITRATES INORGANIC, N.O.S (GALLIUM(III) NITRATE HYDRATE), 5.1, II
14.3. Transport hazard class	(es)			
5.1	5.1	5.1	5.1	5.1
0	5	51	51	51
14.4. Packing group				
II	II	II	II	II
14.5. Environmental 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/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 Fu	II Texts
H272	May intensify fire: oxidizer
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
Abbreviations I	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

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EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL STOT	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Long Term Exposure Limit No Observable Effective Concentration Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous Safety Data Sheet Short Term Exposure Limit Specific Target Organ Toxicity
STEL	Short Term Exposure Limit
STOT VOC	
VOC VPVB	Volatile Organic Compounds 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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