GK6505 v2.0



### Safety Data Sheet

www.glentham.com

#### 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	: GK6505
Product name	: Yttrium nitrate hexahydrate
CAS number	: 13494-98-9
EINECS	: 233-802-6
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 CLP according to (EC) 1272/2008

H302	Acute Tox. 4
H319	Eye Irr. 2A
H411	Aquatic Chronic 2

#### 2.2 Label elements

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

Pictograms



Signal words	Warning
Hazard statements	
H302	Harmful if swallowed
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
Precautionary statements	
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P264	Do not breathe fume.
Other hazards	

PBT

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

2.3

## **Glentham** LIFE SCIENCES

## Safety Data Sheet

www.glentham.com

#### 3.1 Substances

**4**.

4.2

Name		Identifier	%	Classification
Yttrium nitrate hexahydrate		CAS: 13494-98-9 EC: 233-802-6 REACH: Not applicable	99.8%	H302, Acute Tox. 4 H319, Eye Irr. 2A H411, Aquatic Chronic 2
irst aid measures escription of first ai	id measures			
Skin contact	Consult a doctor. Drench the affected skin with running water for 10 minutes or longer if substance 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.			nmediately unless stuck to skin.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.			
Ingestion	unconscious and breath	ing is OK, place in the re	covery positi	alf a litre of water to drink immediately. If on. If unconscious, check for breathing al as soon as possible. Wash out mouth
Inhalation	ensure the casualty sits position. If unconscious	preathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, sure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery sition. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to spital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own fety whilst doing so.		
lost important symp	otoms and effects, both ac	ute and delayed		
Skin contact	be irritation and redness		nere may be	y occur at the site of contact. There may mild irritation at the site of contact. exposure.
Eye contact		• • •	•	y. The vision may become blurred. edness. There may be severe pain.
Ingestion	unconsciousness and c severe headache and ra loss of consciousness.	onvulsions. Severe poisc apid gasping breathing. T There may be soreness a	ning can cau here may be and redness o	r. Severe poisoning can cause shock, se vision to be blurred or blindness, irritation of the throat. There may be of the mouth and throat. There may be severe and persistent nausea and
Inhalation	may occur. Nausea and of tightness in the chest	stomach pain may occu	r. There may	milar to those of ingestion. Convulsions be irritation of the throat with a feeling . There may be shortness of breath with
Delayed / immediate effects	-	Immediate effects can b r. There may be loss of c	•	fter short-term exposure. Nausea and

#### 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



## Safety Data Sheet

www.glentham.com

#### 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

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. Absorb into dry earth or sand.

#### 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. 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 exhaust ventilation of the area. Ensure there is sufficient 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	Impermeable gloves. Protective gloves.
Eye protection	Safety glasses with side-shields. Tightly fitting safety goggles. 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

# Glentham

## Safety Data Sheet

#### www.glentham.com

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

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

#### Materials to avoid

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 Serious eye damage/eye irritation (Category 2A)
- 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



GK6505 v2.0

## Safety Data Sheet

www.glentham.com

No data available.

#### i) STOT-repeated exposure

No data available.

#### j) Aspiration hazard

No data available.

#### <sup>11.2</sup> 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 irritation and redness at the site of contact. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.
Eye contact	May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be irritation and redness. There may be pain and redness. There may be severe pain.
Ingestion	Convulsions may occur. 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 irritation of the throat. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting. 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. Convulsions may occur. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. 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. Nausea and stomach pain may occur. There may be loss of consciousness.
Other information	No data available.
cological informatior	I
oxicity	
o data available.	
	dability

Not biodegradable.

#### 12.3 Bioaccumulative potential

Bioaccumulation potential.

#### <sup>12.4</sup> Mobility in soil

**12.** 12.1

12.2

Readily absorbed into soil.

#### <sup>12.5</sup> 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.

## **Glentham** LIFE SCIENCES

14.

### Safety Data Sheet

www.glentham.com

	ΙΑΤΑ	ADN	RID
UN1477	UN1477	UN1477	UN1477
e			
NITRATES, INORGANIC, N.O.S.	Nitrates, inorganic, n.o.s.	NITRATES, INORGANIC, N.O.S.	NITRATES, INORGANIC, N.O.S.
on			
UN1477 NITRATES, INORGANIC, N.O.S. (YTTRIUM NITRATE HEXAHYDRATE), 5.1, II	UN1477 Nitrates, inorganic, n.o.s. (Yttrium nitrate hexahydrate), 5.1, II	UN1477 NITRATES, INORGANIC, N.O.S. (YTTRIUM NITRATE HEXAHYDRATE), 5.1, II	UN1477 NITRATES, INORGANIC, N.O.S. (YTTRIUM NITRATE HEXAHYDRATE), 5.1, II
s)			
5.1	5.1	5.1	5.1
5.1	51	51	5.1
II	II	II	II
	NITRATES, INORGANIC, N.O.S. UN1477 NITRATES, INORGANIC, N.O.S. (YTTRIUM NITRATE HEXAHYDRATE), 5.1, II s) 5.1	NITRATES, INORGANIC, N.O.S. Nitrates, inorganic, NORGANIC, N.O.S. NO.S. NORGANIC, N.O.S. NORGANIC, N.O.S. NORGANIC, N.O.S. NORGANIC, N.O.S. (YTTRIUM NITRATE HEXAHYDRATE), 5.1, II SS 5.1 5.1 S.1 5.1 II II II II	NITRATES, INORGANIC, N.O.S.  Nitrates, inorganic, n.o.s.  NITRATES, INORGANIC, N.O.S.    UN1477 NITRATES, INORGANIC, N.O.S. (YTTRIUM NITRATE HEXAHYDRATE), 5.1, II  UN1477 NITRATES, inorganic, n.o.s. (Yttrium nitrate hexahydrate), 5.1, II  UN1477 NITRATES, INORGANIC, N.O.S. (YTTRIUM NITRATE hexahydrate), 5.1, II    s)  5.1  5.1    join  join    I  II

#### 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 Full Texts

H302	Harmful if swallowed
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

#### Abbreviations Full Texts

# Glentham

## Safety Data Sheet

#### www.glentham.com

ADN ADR ALARP CAS CLP COSHH EC Number EC50	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health European Community Number Effective Concentration 50%
EILINCS EINECS	European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System
HSE	Health & Safety Executive UK
ΙΑΤΑ	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 vPvB	Volatile Organic Compounds
WEL	Very Persistent and Very Bioaccumulative
VVEL	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.

Copyright © 2023 Glentham Life Sciences Limited. All rights reserved.