GK8557 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	: GK8557
Product name	: All-trans-Retinal
CAS number	: 116-31-4
EINECS	: 204-135-8
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
H315	Skin Irr. 2

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
Precautionary statements	
P264	Do not breathe fume.
Other hazards	

PBT

2.3

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

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Name		Identifier	%	Classification
All-trans-Retinal		CAS: 116-31-4 EC: 204-135-8 REACH: Not applicable	99.0%	H302, Acute Tox. 4 H315, Skin Irr. 2
First aid measures				
Description of first a	id measures			
Skin contact		contaminated clothes a	nd footwear ir	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng.
Eye contact	Consult a doctor. Transf 15 minutes.	er to hospital for specia	list examinatio	on. Bathe the eye with running water for
Ingestion		ing is OK, place in the r	. 0	alf a litre of water to drink immediately. I on. Transfer to hospital as soon as
Inhalation Most important sym		ty whilst doing so. Tran		ition. Remove casualty from exposure I as soon as possible. Consult a doctor
Skin contact	There may be irritation a	nd redness at the site c	of contact.	
Eye contact	The eyes may water pro	fusely. There may be pa	ain and redne	SS.
Ingestion	convulsions. Severe pois rapid gasping breathing.	soning can cause vision There may be difficulty	to be blurred swallowing. T	cause shock, unconsciousness and or blindness, severe headache and 'here may be soreness and redness of usness and severe and persistent
		unge can occur causing	symptoms si	milar to those of ingestion. Nausea and
Inhalation	1 0	There may be irritation	n of the throat	with a feeling of tightness in the chest.

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. 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. 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	Brown
Odour	No data available.
Melting point/Freezing point	63 °C
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.

^{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.

No data available. No data available.

No data available.

^{10.4} Conditions to avoid

Heat.

^{10.5} 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 Skin corrosion/irritation (Category 2)
- 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 toxicityNo data available.
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.

J) Aspiration hazardNo data available.

11.2 Symptoms / routes of exposure

Skin contact	There may be irritation and redness at the site of contact.
Eye contact	The eyes may water profusely. There may be pain and redness.

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Ingestion	Nausea and stomach pain may occur. Severe poisoning can caus convulsions. Severe poisoning can cause vision to be blurred or b rapid gasping breathing. There may be difficulty swallowing. There the mouth and throat. Severe poisoning can cause unconsciousne nausea and vomiting.	lindness, severe headache and e may be soreness and redness of
Inhalation	Absorption through the lungs can occur causing symptoms similar stomach pain may occur. There may be irritation of the throat with There may be shortness of breath with a burning sensation in the	a feeling of tightness in the chest.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nat	usea and stomach pain may occur
Other information	No data available.	
Ecological informati	on	
Toxicity		
No data available.		
Persistence and deg	yradability	
Biodegradable.		
Bioaccumulative po	tential	
No bioaccumulation	potential.	
Mobility in soil		
Readily absorbed int	o soil.	
Results of PBT and	vPvB assessment	
This substance is no	t identified as a PBT substance.	
Endocrine disruptin	g properties	
This substance is no	t identified as having endocrine disrupting properties	
Other adverse effect	's	
No data available.		
Disposal considerat	ions	
Waste treatment me	thods	
Disposal operations		
	e 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 re	egarding disposal.
Transport information	on	
This product does no	ot require a classification for transport.	
Regulatory informat	ion	
•	nmental regulations/legislation specific for the substance or mixture	
This Safety Data Sh Regulation (EU) 202	eet is prepared in accordance with Commission Regulation (EC) 1907 0/787.	2006, amended by Commission
Authorisations/Restrictio	ns	
Population (EC) 1	907/2006, REACH, Annex XIV list of substances subject to	No data available.
authorisation:		
authorisation: Regulation (EC) 1 on the market and	907/2006, REACH, Annex XVII restrictions on the manufacture, placir d use of certain dangerous substances:	-
authorisation: Regulation (EC) 1 on the market and Regulation (EC) 1	•	ng No data available. No data available. No data available.



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

Other information	1
I-Statement Full	Texts
H302	Harmful if swallowed
H315	Causes skin irritation
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
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.