GK8880 v3.0



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	:	GK8880
Product name	:	Zinc chloride, anhydrous, USP grade
CAS number	:	7646-85-7
EINECS	:	231-592-0
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

:	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
	:	Corsham SN13 9SW	Unit 5 Leafield Way Fax Corsham SN13 9SW Email	Unit 5 Leafield Way Fax : Corsham SN13 9SW Email :

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
H314	Skin Corr. 1B
H400	Aquatic Acute 1
H410	Aquatic Chronic 1

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary statements	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
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.
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.
P264	Do not breathe fume.
Other hazards	

PBT

2.3

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This substance is not identified as a PBT substance.

Substances						
Name		Identifier	%	Classification		
Zinc chloride, anhy	drous, USP grade	CAS: 7646-85-7 EC: 231-592-0 REACH: Not applicable	97.0%	H302, Acute Tox. 4 H314, Skin Corr. 1B H400, Aquatic Acute 1 H410, Aquatic Chronic 1		
First aid measures						
Description of first a	id measures					
Skin contact	still on skin. Remove		nd footwear in	for 10 minutes or longer if substance mmediately unless stuck to skin. ng.		
Eye contact	Consult a doctor. Trai 15 minutes.	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.				
Ingestion	give half a litre of wate recovery position. If u	er to drink immediately. If ι	inconscious a athing and ap	r to drink every 10 minutes. If consciou and breathing is OK, place in the ply artificial respiration if necessary. h water.		
Inhalation	ensure the casualty s position. If unconscio	its or lies down. If unconsc us, check for breathing and ossible. Consult a doctor. I	ious and brea apply artifici	le oxygen if available. If conscious, athing is OK, place in the recovery al respiration if necessary. Transfer to alty from exposure ensuring one's owr		
Most important sym	ptoms and effects, both a	acute and delayed				
Skin contact	Blistering may occur. irritation and redness		occur if treat	ment is not immediate. There may be		
Eye contact	Corneal burns may or be irritation and redne		nt damage. Th	ne eyes may water profusely. There ma		
Ingestion	•	bleeding from the mouth o		the lips. Nausea and stomach pain mage may be soreness and redness of the		
Inhalation	irritation of the throat		n the chest.	mach pain may occur. There may be Fhere may be shortness of breath with		
Delayed / immediate effects		n be expected after short-te ng from the mouth or nose.		e. Nausea and stomach pain may occu		
Indication of any imi	mediate medical attentior	n and special treatment ne	eded			
Immediate / special treatm		-				

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

Corrosive. In combustion emits toxic fumes.

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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. 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. The floor of the storage room must be impermeable to prevent the escape of liquids. 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

· ·				
Substance (CAS)	Control Parameter	Value	Notes	Source
Zinc chloride, fume (7646-85-7)	Long-term Exposure Limit (mg m ⁻³)	1		UK HSE EH40/2005
	Short-term Exposure Limit (mg m ⁻³)	2		

8.2 Exposure controls

Engineering measures	The floor of the storage room must be impermeable to prevent the escape of liquids. 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	Tightly fitting safety goggles. Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.
Environmental	The floor of the storage room must be impermeable to prevent the escape of liquids.

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9. Physical and chemical properties

9.1	Information on basic physical and chemical properties
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Physical state	Solid
Colour	White
Odour	No data available.
Melting point/Freezing point	290 °C
Boiling point/initial boiling point/boiling range	732 °C
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	1 - 851 000 mg/L @ 20 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	2.907
Relative vapour pressure	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.

^{10.5} Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

Zinc chloride, fume LD50 Rat (IP): 58 mg/kg LD50 Rat (Oral): 1100 mg/kg LD50 Rat (Oral): 350 mg/kg

- b) Skin corrosion/irritation
 Skin corrosion/irritation (Category 1B)
- c) Serious eye damage/irritation No data available.
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.

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f)	Carcinogenicity No data available.			
g)	Reproductive toxicity No data available.			
h)	STOT-single exposure	A		
	No data available.	-		
i)	STOT-repeated expos	sure		
	No data available.			
j)	Aspiration hazard			
	No data available.			
	Symptoms / routes of	exposure		
	Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact.		
	Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness.		
	Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be soreness and redness of the mouth and throat. There may be vomiting.		
	Inhalation	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. There may be vomiting.		
	Delayed / immediate effects	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.		
	Other information	No data available.		
11.2	Information on other I	hazards		
1.2.1	Endocrine disrupting pr	roperties		
	This product does not	contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.		
11.2.2	Other information			
	No additional informat	ion		
12.	Ecological information	n		
12.1	Toxicity			
	No data available.			
12.2	Persistence and degra	adability		
	Not biodegradable.			
12.3	Bioaccumulative pote	ential		
	Bioaccumulation poter	ntial.		
12.4	Mobility in soil			
	Readily absorbed into	Readily absorbed into soil.		
12.5	Results of PBT and vi	PvB assessment		
	This substance is not	identified as a PBT substance.		
12.6	Endocrine disrupting	properties		
		identified as having endocrine disrupting properties		
12.7	Other adverse effects			
	No data available.			
13.	Disposal consideratio	ons		



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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.

14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN2331	UN2331	UN2331	UN2331	UN2331
14.2. UN proper shipping na	me			
ZINC CHLORIDE, ANHYDROUS	ZINC CHLORIDE, ANHYDROUS	Zinc chloride, anhydrous	ZINC CHLORIDE, ANHYDROUS	ZINC CHLORIDE, ANHYDROUS
Transport document descrip	otion			
UN2331 ZINC CHLORIDE, ANHYDROUS, 8, III	UN2331 ZINC CHLORIDE, ANHYDROUS, 8, III	UN2331 Zinc chloride, anhydrous, 8, III	UN2331 ZINC CHLORIDE, ANHYDROUS, 8, III	UN2331 ZINC CHLORIDE, ANHYDROUS, 8, III
14.3. Transport hazard class	s(es)			
8	8	8	8	8
a contraction of the second se	8	8	8	
14.4. Packing group				
III	Ш	III	III	Ш
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) 2020/878.

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, placi on the market and use of certain dangerous substances:	ng 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

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	H302	Harmful if swallowed	
	H314	Causes severe skin burns and eye damage	
	H400	Very toxic to aquatic life	
	H410	Very toxic to aquatic life with long lasting effects	
A	Abbreviations 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	
	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	
	STOT	Specific Target Organ Toxicity	
	VOC	Volatile Organic Compounds	
	vPvB	Very Persistent and Very Bioaccumulative	
	WEL	Workplace Exposure Limits	

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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.

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