

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.

:	GK1443
:	Phenol, 90% aqueous solution
:	108-95-2
:	203-632-7
:	liquid, mixture
:	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
	Unit 5 Leafield Way Corsham SN13 9SW	Unit 5 Leafield Way Fax Corsham SN13 9SW Email	Unit 5 Leafield WayFaxCorsham SN13 9SWEmail

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

H301	Acute Tox. 3
H311	Acute Tox. 3
H314	Skin Corr. 1B
H331	Acute Tox. 3
H341	Muta. 2
H373	STOT RE 2
H411	Aquatic Chronic 2

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301	IF SWALLOWED:
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/



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P264	Do not breathe fume.
P310	Immediately call a POISON CENTER or doctor/physician.
P308+P313	IF exposed or concerned: Get medical advice/attention.
	easy to do - continue rinsing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

2.3 Other hazards

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.2 Mixtures

This product has no classified components.

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	Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
Ingestion	Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If conscious, give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. 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	Absorption through the skin may be fatal. Blistering may occur. Irritation or pain may occur at the site of contact. Progressive ulceration will occur if treatment is not immediate. 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	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be severe pain.
Ingestion	Blood may be vomited. Convulsions may occur. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. 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.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. Exposure may cause coughing or wheezing. 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. There may be bleeding from the mouth or nose. There may be loss of consciousness.

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

PBT



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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. 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. Evacuate the area immediately. 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

Alert the neighbourhood to the presence of fumes or gas. Do not discharge into drains or rivers.

Methods and material for containment and cleaning up

Clean-up procedures

6.3

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 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

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LIF	FE S	CIE	NCES	

Control Parameter	Value	Notes	Source
Long-term Exposure Limit (ppm)	2	Sk	UK HSE EH40/2005
Long-term Exposure Limit (mg m ⁻³)	7.8		
Short-term Exposure Limit (ppm)	4		
Short-term Exposure Limit (mg m ⁻³)	16		
Long-term Exposure Limit (ppm)	8	skin	2009/161/EU
Long-term Exposure Limit (mg m ⁻³)	2		
Short-term Exposure Limit (ppm)	16		
Short-term Exposure Limit (mg m ⁻³)	4		
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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	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

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	Liquid Colourless No data available. 40.91 °C 181.75 °C @ Press: 760.0 Torr No data available. No data available.
Density/relative density	1.071
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



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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

Flames. Hot surfaces. 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

Phenol

48 hr LC50 Waterflea (Daphnia magna) (Aquatic): 17 mg/L LD50 Cat (Oral): 0.1 g/kg LD50 Dog (Oral): 0.5 g/kg LD50 Rat (Oral): 317 mg/kg LD50 Rat (Oral): 530 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 Germ cell mutagenicity (Category 2)
- f) Carcinogenicity No data available.
- g) Reproductive toxicity No data available.

h) STOT-single exposure

No data available.

i) STOT-repeated exposure

Specific target organ toxicity, repeated exposure (Category 2)

j) Aspiration hazard

No data available.

Symptoms / routes of exposure

Skin contact	Absorption through the skin may be fatal. Blistering may occur. Irritation or pain may occur at the site of contact. Progressive ulceration will occur if treatment is not immediate. 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	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be severe pain.
Ingestion	Blood may be vomited. Convulsions may occur. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. 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.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. Exposure may cause coughing or wheezing. 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.

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Delayed / immediate effects	Convulsions may occur. Ir bleeding from the mouth c		e expected after short-term eless of consciousness.	exposure. There may be
Other information	No data available.			
Information on other	hazards			
Endocrine disrupting p	roperties			
This product does no	t contain known or suspected	endocrine disruptors a	according to REACH or relev	ant EU Regulations.
Other information				
No additional informa	ition			
Ecological information	on			
Toxicity				
No data available.				
Persistence and deg	radability			
Not biodegradable.				
Bioaccumulative pot	ential			
Bioaccumulation pote	ential.			
Mobility in soil				
Readily absorbed into	o soil.			
Results of PBT and v	/PvB assessment			
This substance is not	t identified as a PBT substanc	æ.		
Endocrine disrupting	J properties			
This substance is not	t identified as having endocrin	e disrupting properties	5	
Other adverse effects	5			
No data available.				
Disposal considerati	ons			
Waste treatment met	hods			
Disposal operations				
	e container and arrange for co	llection by specialised	disposal company.	
NB	s drawn to the possible existe	ance of regional or natio	onal regulations regarding di	sposal
		filee of regional of hall	onal regulations regarding di	500301.
Transport informatio	n			
	IMDG	ΙΑΤΑ	ADN	RID
ADR				
ADR 14.1. UN number				
	UN2821	UN2821	UN2821	UN2821
14.1. UN number		UN2821	UN2821	UN2821

Transport document description				
UN2821 PHENOL	UN2821 PHENOL	UN2821 Phenol solution, 6.1, II	UN2821 PHENOL	UN2821 PHENOL
SOLUTION, 6.1, II	SOLUTION, 6.1, II		SOLUTION, 6.1, II	SOLUTION, 6.1, II

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14.3. Transport hazard class(es)					
6.1	6.1	6.1	6.1	6.1	
6	6	6	6		
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) 2020/878.

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, 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

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



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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

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

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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