

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	: GK9026
Product name	: 1,4-Naphthoquinone
CAS number	: 130-15-4
EINECS	: 204-977-6
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

H301	Acute Tox. 3
H315	Skin Irr. 2
H319	Eye Irr. 2A
H330	Acute Tox. 1
H334	Resp. Sens. 1
H335	STOT SE 3
H336	STOT SE 3
H400	Aquatic Acute 1

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
Precautionary statements	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/



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P302+P352	IF ON SKIN: wash with plenty of water.
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position
	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.
P310	Immediately call a POISON CENTER or doctor/physician.
P264	Do not breathe fume.
P261	Avoid breathing dust.
Othor bazarde	

2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
1,4-Naphthoquinone	CAS: 130-15-4 EC: 204-977-6 REACH: Not applicable	97.0%	H301, Acute Tox. 3 H315, Skin Irr. 2 H319, Eye Irr. 2A H330, Acute Tox. 1 H334, Resp. Sens. 1 H335, STOT SE 3 H336, STOT SE 3 H400, Aquatic Acute 1

4. First aid measures

4.1 Description of first aid measures

Skin contact	Consult a doctor. 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. 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. ensure the casualty sits or lies down. If unconscious and breathing is OK, place in position. If unconscious, check for breathing and apply artificial respiration if neces hospital as soon as possible. Consult a doctor. Remove casualty from exposure er safety whilst doing so.	
ost important sym	ptoms and effects, both acute and delayed
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	The eyes may water profusely. There may be irritation and redness. There may be severe pain.
Ingestion	Convulsions may occur. 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 loss of consciousness.

4.2



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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

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. 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

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.

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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. Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Yellow
Odour	No data available.
Melting point/Freezing point	126 °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.
Density/relative density	1.422
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

- 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

a)

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	No data available.	
e)	Germ cell mutagenicity No data available.	,
f)	Carcinogenicity No data available.	
g)	Reproductive toxicity	
h)	STOT-single exposure	visity single synapsure Despiratory tractivitation (Category 2)
i)	STOT-repeated exposu	xicity, single exposure; Respiratory tract irritation (Category 3) I re
j)	No data available. Aspiration hazard	
	No data available.	
11.2	Symptoms / routes of e	ixposure
	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	The eyes may water profusely. There may be irritation and redness. There may be severe pain.
	Ingestion	Convulsions may occur. 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 loss of consciousness.
	Other information	No data available.
12.	Ecological information	
12.1	Toxicity	
	No data available.	
12.2	Persistence and degra	dability
	No data available.	
12.3	Bioaccumulative poten	tial
	No data available.	
12.4	Mobility in soil	
	Readily absorbed into s	soil.
12.5	Results of PBT and vP	vB assessment
	This substance is not ic	lentified as a PBT substance.
12.6	Endocrine disrupting p	roperties
	This substance is not ic	lentified as having endocrine disrupting properties
12.7	Other adverse effects	
	No data available.	
13.	Disposal consideration	IS
13.1	Waste treatment metho	ods
	Disposal operations	

Disposal operations

Transfer to a suitable container and arrange for collection by specialised disposal company.

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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				
UN2811	UN2811	UN2811	UN2811	UN2811
14.2. UN proper shipping nar	ne			
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.
Transport document descript	tion			
UN2811 TOXIC SOLID, ORGANIC, N.O.S. (1,4-NAPHTH OQUINONE), 6.1, I	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (1,4-NAPHTH OQUINONE), 6.1, I	UN2811 Toxic solid, organic, n.o.s. (1,4-N aphthoquinone), 6.1, I	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (1,4-NAPHTH OQUINONE), 6.1, I	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (1,4-NAPHTH OQUINONE), 6.1, I
14.3. Transport hazard class((es)			
6.1	6.1	6.1	6.1	6.1
6	6	6	6	6 0
14.4. Packing group				
I	I	I	I	I
14.5. Environmental hazards				
No	No	No	No	No

15. Regulatory information

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

H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled

^{15.1} Safety, health and environmental regulations/legislation specific for the substance or mixture



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H334 H335	May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause respiratory irritation	
H335 H336	May cause drowsiness or dizziness	
H400	Very toxic to aquatic life	
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	

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.

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