GK4311 v3.0

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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	: GK4311
Product name	: 2,3-Dichloro-1,4-naphthoquinone
CAS number	: 117-80-6
EINECS	: 204-210-5
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
H319	Eye Irr. 2A
H400	Aquatic Acute 1
H410	Aquatic Chronic 1

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
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Precautionary statemen	ts
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.
P302+P352	IF ON SKIN: wash with plenty of water.
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	

2.3

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РВТ

This substance is not identified as a PBT substance.

Name		Identifier	%	Classification		
2,3-Dichloro-1,4-na	aphthoquinone	CAS: 117-80-6 EC: 204-210-5 REACH: Not applicable	98.0%	H302, Acute Tox. 4 H315, Skin Irr. 2 H319, Eye Irr. 2A H400, Aquatic Acute 1 H410, Aquatic Chronic 1		
First aid measures						
Description of first a	aid measures					
Skin contact			•	r for 10 minutes or longer if substance i mmediately unless stuck to skin.		
Eye contact	Consult a doctor. Ba	Consult a doctor. 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. Wash out mouth with water.				
Inhalation	Consult a doctor. Re	emove casualty from expos	sure ensuring o	one's own safety whilst doing so.		
Most important sym	ptoms and effects, both	n acute and delayed				
Skin contact	There may be irritation and redness at the site of contact.					
Eye contact	The eyes may wate	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.				
Ingestion	Nausea and stomac There may be vomit		nay be sorenes	ss and redness of the mouth and throat		
ingeotion				n of the throat with a feeling of tightness		

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting.

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.

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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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. 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

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

No workplace exposure limit control parameters set

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	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.

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	195 °C
Boiling point/initial boiling point/boiling range	275 °C @ Press: 2 Torr
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.

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Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
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.

^{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 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 No data available.
- i) STOT-repeated exposure No data available.

J) Aspiration hazardNo data available.

Symptoms / routes of exposure

Skin contact

There may be irritation and redness at the site of contact.

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	Eye contact	The eyes may water pr	rofusely. There may be irritat	ion and redness. There	e may be pain and redness.		
	Ingestion	Nausea and stomach p There may be vomiting	pain may occur. There may b J.	be soreness and rednes	ss of the mouth and throat.		
	Inhalation	Nausea and stomach p in the chest. There ma	pain may occur. There may b y be vomiting.	be irritation of the throat	with a feeling of tightness		
	Delayed / immediate effects	Immediate effects can	be expected after short-term	i exposure. Nausea and	d stomach pain may occur.		
	Other information	No data available.					
.2	Information on other	hazards					
.2.1	Endocrine disrupting p	roperties					
	This product does not	t contain known or suspec	ted endocrine disruptors acc	cording to REACH or re	levant EU Regulations.		
1.2.2	Other information						
	No additional information	tion					
2.	Ecological informatio	n					
2.1	Toxicity						
	No data available.						
2.2	Persistence and degr	adability					
	Not biodegradable.						
2.3	Bioaccumulative pote	əntial					
	Bioaccumulation pote	ntial.					
2.4	Mobility in soil						
	Readily absorbed into) soil.					
2.5	Results of PBT and v	PvB assessment					
	This substance is not	identified as a PBT subst	ance.				
2.6	Endocrine disrupting	properties					
	This substance is not	identified as having endo	crine disrupting properties				
2.7	Other adverse effects	\$					
	No data available.						
3.	Disposal consideration	one					
3.1	Waste treatment met						
	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 ex ه	istence of regional or nation	al regulations regarding	l disposal.		
14.	Transport information	n					
	ADR	IMDG	ΙΑΤΑ	ADN	RID		
	14.1. UN number						
	UN2811	UN2811	UN2811	UN2811	UN2811		
	14.2. UN proper shipping	j name					
			Tavia calid argania				

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Transi	oort d	locument	descri	ption

Transport document descrip	tion			
UN2811 TOXIC SOLID, ORGANIC, N.O.S. (2,3-DICHLO RO-1,4-NAPHTHOQ UINONE), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (2,3-DICHLO RO-1,4-NAPHTHOQ UINONE), 6.1, III	UN2811 Toxic solid, organic, n.o.s. (2,3-Di chloro-1,4-naphthoqui none), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (2,3-DICHLO RO-1,4-NAPHTHOQ UINONE), 6.1, III	UN2811 TOXIC SOLID, ORGANIC, N.O.S. (2,3-DICHLO RO-1,4-NAPHTHOQ UINONE), 6.1, III
14.3. Transport hazard class	(es)			
6.1	6.1	6.1	6.1	6.1
6	6	6	6	•
14.4. Packing group				

in a coning group					
111	111	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, 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
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Abbreviations Full Texts

ADN ADR	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways 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

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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
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	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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