

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.

GK8794
Phthalic anhydride
85-44-9
201-607-5
solid, substance
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
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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
H317	Skin Sens. 1
H318	Eye Dam. 1
H334	Resp. Sens. 1
H335	STOT SE 3
H336	STOT SE 3

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Precautionary statements	
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.
P342+P311	IF experiencing respiratory symptoms: Call a POISON CENTER/doctor/
P264	Do not breathe fume.

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Avoid breathing dust.

2.3 Other hazards

РВТ

This substance is not identified as a PBT substance.

3.0	Composition/information on ingredients
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3.1 Substances

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. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	If unconscious and breathing is OK, place in the recovery position. 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	There may be irritation and redness at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be soreness and redness of the mouth and throat. There may be vomiting. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. 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	Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.

effects

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



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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.

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. 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
Phthalic anhydride (85-44-9)	Long-term Exposure Limit (mg m ⁻³)	4	Sen	UK HSE EH40/2005
	Short-term Exposure Limit (mg m ⁻³)	12	2	

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.

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	Eye protection Safety glasses with sid	le-shields. Ensure eye bath is to hand. Safety glasses.
	Skin protection Protective clothing.	
	Physical and chemical properties	
	Information on basic physical and chemical p	roperties
	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 Relative vapour pressure Particle characteristics	Solid White No data available. 131.6 °C 295 °C No data available. No data available.
	Other information	
	No data available.	
	Stability and reactivity	
1	Reactivity	
	Stable under recommended transport or storag	e conditions.
2	Chemical stability	
	Stable under normal conditions.	
3	Possibility of hazardous reactions	
	Hazardous reactions	
	Decomposition may occur on exposure to cond transport or storage conditions.	litions or materials listed below. Hazardous reactions will not occur under normal
4	Conditions to avoid	
	Heat.	
5	Incompatible materials	
	Materials to avoid	
	Strong acids. Strong oxidising agents.	
	Toxicological information	
1	Information on toxicological effects	
	Acute toxicity Phthalic anhydride 1 hr LC50 Rat (Inhalation): >210 mg/L LD50 Rat (Oral): 1530 mg/kg LD50 Rat (Oral): 4020 mg/kg	
	LD50 Rat (Oral): 800-1600 mg/kg Skin corrosion/irritation	
	Skin corrosion/irritation (Category 2) Serious eye damage/irritation	
	Serious eye damage/eye irritation (Category 1)	
	Respiratory or skin sensitisation	

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Phthalic anhydride: Respiratory Sensitising (ECHA Property of Concern) Phthalic anhydride: Skin Sensitising (ECHA Property of Concern) Sensitization, Skin (Category 1)

e) Germ cell mutagenicity

No data available.

- f) Carcinogenicity
 No data available.
- g) Reproductive toxicity No data available.

h) STOT-single exposure

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

i) STOT-repeated exposure No data available.

j) Aspiration hazard

No data available.

Symptoms / routes of exposure

The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Nausea and stomach pain may occur. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be soreness and redness of the mouth and throat. There may be vomiting. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
Absorption through the lungs can occur causing symptoms similar to those of ingestion. 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.
Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.

Other information No data available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.

11.2.2 Other information

No additional information

12. Ecological information

^{12.1} Toxicity

96 hr EC50 Algae (Pseudokirchneriella subcapitata): 147 ug/L 96 hr EC50 Algae (Pseudokirchneriella subcapitata): 41400 ug/L 96 hr EC50 Algae (Pseudokirchneriella subcapitata): 78530 ug/L

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

This substance is not identified as a PBT substance.



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^{12.6} Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

12.7 Other adverse effects

No data available.

13. Disposal considerations

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				
UN2214	UN2214	UN2214	UN2214	UN2214
14.2. UN proper shipping na	me			
PHTHALIC ANHYDRIDE	PHTHALIC ANHYDRIDE	Phthalic anhydride	PHTHALIC ANHYDRIDE	PHTHALIC ANHYDRIDE
Transport document descrip	otion			
UN2214 PHTHALIC ANHYDRIDE, 8, III	UN2214 PHTHALIC ANHYDRIDE, 8, III	UN2214 Phthalic anhydride, 8, III	UN2214 PHTHALIC ANHYDRIDE, 8, III	UN2214 PHTHALIC ANHYDRIDE, 8, III
14.3. Transport hazard class	s(es)			
8	8	8	8	8
0		8	a a a a a a a a a a a a a a a a a a a	8
14.4. Packing group				
III	III	Ш	Ш	Ш
14.5. Environmental hazards	5			
No	No	No	No	No

15. Regulatory information

Authorisations/Restrictions

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.

	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.

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Other informatio	n	
H-Statement Full	Texts	
H302	Harmful if swallowed	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
Abbreviations Fu	ull 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	

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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Workplace Exposure Limits

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