

Safety Data Sheet

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According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

	According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878					
	Identification of the substa	fication of the substance/mixture and of the company/undertaking				
.1	Product identifier	Product identifier				
	Product name:FCAS number:1Physical form:sREACH:Aa	GX9963 Phosphorus(V) oxide 1314-56-3 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 he registration is envisaged for a later registration deadline.				
2	Relevant identified uses of the substance or mixture and uses advised against					
	PC21: Laboratory chemicals.					
3	Details of the supplier of t	he safety data sheet				
		Glentham Life Sciences LtdTelephone:+44 (0) 1225 667 798Jnit 5 Leafield WayFax:+44 (0) 2033 978 909Corsham SN13 9SWEmail:info@glentham.comJnited KingdomWeb:www.glentham.com				
4	Emergency telephone nun	nber				
	Emergency telephone: N number	NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT)				
	Hazards identification					
1	Classification of the subst	tance or mixture				
	Classification under CLP accordi	ing to (EC) 1272/2008				
	H314 Skir	n Corr. 1A				
	H318 Eye	e Dam. 1				
.2	Label elements					
	Label elements under CLP accore	ding to (EC) 1272/2008				
	Pictograms	GHS05				
	Signal words Hazard statements	Danger				
	H314 H318 EUH014	Causes severe skin burns and eye damage Causes serious eye damage Reacts violently with water.				
	Precautionary statement P280 P301+P330+P331 P305+P351+P338 P310 P260	Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor/physician. Do not breathe dust.				
•	P264	Do not breathe fume.				
3	Other hazards					
	рвт This substance is not ident	tified as a PBT substance				
0	Composition/information	on ingredients				

3.1 Substances

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Name		Identifier	%	Classification
Phosphorus(V) oxide		CAS: 1314-56-3 EC: REACH: Not applicable	97.5%	H314, Skin Corr. 1A H318, Eye Dam. 1
First aid measures				
Description of first aid	measures			
Skin contact	still on skin. Remove all co	ntaminated clothes an	id footwear in	for 10 minutes or longer if substance is nmediately unless stuck to skin. ng. Wash immediately with plenty of
Eye contact	Consult a doctor. Transfer 15 minutes.	to hospital for speciali	st examinatio	n. Bathe the eye with running water for
Ingestion	give half a litre of water to	drink immediately. If u scious, check for brea	nconscious a thing and app	to drink every 10 minutes. If conscious nd breathing is OK, place in the oly artificial respiration if necessary. n water.
Inhalation	ensure the casualty sits or position. If unconscious, ch	lies down. If unconsci leck for breathing and	ous and brea apply artificia	e oxygen if available. If conscious, thing is OK, place in the recovery al respiration if necessary. Remove g so. Transfer to hospital as soon as
Most important sympto	oms and effects, both acute	and delayed		
Most important sympto		essive ulceration will	occur if treatr	nent is not immediate. There may be
	Blistering may occur. Prog mild irritation at the site of	ressive ulceration will contact. May cause permanen	t damage. Th	e eyes may water profusely. The vision
Skin contact	Blistering may occur. Prog mild irritation at the site of Corneal burns may occur. may become blurred. Ther Blood may be vomited. Co	ressive ulceration will contact. May cause permanen e may be pain and rec rrosive burns may app	t damage. Th Iness. There bear around tl	e eyes may water profusely. The vision
Skin contact	Blistering may occur. Prog mild irritation at the site of Corneal burns may occur. may become blurred. Ther Blood may be vomited. Co occur. There may be bleed mouth and throat. Exposure may cause coug	ressive ulceration will contact. May cause permanent e may be pain and rec rrosive burns may app ing from the mouth or hing or wheezing. Nat a feeling of tightness in	t damage. Th Iness. There bear around th nose. There usea and stor	e eyes may water profusely. The vision may be severe pain. ne lips. Nausea and stomach pain may may be soreness and redness of the nach pain may occur. There may be
Skin contact Eye contact Ingestion	Blistering may occur. Prog mild irritation at the site of Corneal burns may occur. may become blurred. Ther Blood may be vomited. Co occur. There may be bleed mouth and throat. Exposure may cause coug irritation of the throat with a burning sensation in the th	ressive ulceration will contact. May cause permanent e may be pain and rec rrosive burns may app ing from the mouth or hing or wheezing. Nau a feeling of tightness in roat.	t damage. Th Iness. There bear around th nose. There usea and stor in the chest. T	e eyes may water profusely. The vision may be severe pain. ne lips. Nausea and stomach pain may may be soreness and redness of the nach pain may occur. There may be
Skin contact Eye contact Ingestion Inhalation Delayed / immediate effects	Blistering may occur. Prog mild irritation at the site of Corneal burns may occur. may become blurred. Ther Blood may be vomited. Co occur. There may be bleed mouth and throat. Exposure may cause coug irritation of the throat with a burning sensation in the the Immediate effects can be e	ressive ulceration will contact. May cause permanent e may be pain and rec rrosive burns may app ing from the mouth or hing or wheezing. Nau a feeling of tightness in roat. expected after short-te m the mouth or nose.	t damage. Th Iness. There bear around th nose. There usea and stor n the chest. T rm exposure.	e eyes may water profusely. The vision may be severe pain. he lips. Nausea and stomach pain may may be soreness and redness of the nach pain may occur. There may be here may be shortness of breath with a
Skin contact Eye contact Ingestion Inhalation Delayed / immediate effects	Blistering may occur. Prog mild irritation at the site of Corneal burns may occur. may become blurred. Ther Blood may be vomited. Co occur. There may be bleed mouth and throat. Exposure may cause coug irritation of the throat with a burning sensation in the th Immediate effects can be e There may be bleeding from	ressive ulceration will contact. May cause permanent e may be pain and rec rrosive burns may app ing from the mouth or hing or wheezing. Nau a feeling of tightness in roat. expected after short-te m the mouth or nose.	t damage. Th Iness. There bear around th nose. There usea and stor n the chest. T rm exposure.	e eyes may water profusely. The vision may be severe pain. he lips. Nausea and stomach pain may may be soreness and redness of the nach pain may occur. There may be here may be shortness of breath with a
Skin contact Eye contact Ingestion Inhalation Delayed / immediate effects Indication of any imme Immediate / special treatmen	Blistering may occur. Prog mild irritation at the site of Corneal burns may occur. may become blurred. Ther Blood may be vomited. Co occur. There may be bleed mouth and throat. Exposure may cause coug irritation of the throat with a burning sensation in the th Immediate effects can be e There may be bleeding from	ressive ulceration will contact. May cause permanent e may be pain and rec rrosive burns may app ing from the mouth or hing or wheezing. Nau a feeling of tightness in roat. expected after short-te m the mouth or nose. special treatment nee	t damage. Th dness. There bear around th nose. There usea and stor n the chest. T rm exposure.	e eyes may water profusely. The vision may be severe pain. he lips. Nausea and stomach pain may may be soreness and redness of the nach pain may occur. There may be here may be shortness of breath with a

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. 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



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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 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.

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

Hand protection

Substance (CAS)	Control Parameter	Value	Notes	Source
Disphosphorus pentoxid (1314-56-3)	e Long-term Exposure Limit (mg m ⁻³)	1		UK HSE EH40/2005
	Short-term Exposure Limit (mg m ⁻³)	2		
	Long-term Exposure Limit (ppm)	1		2006/15/EC
Diphosphorus pentaoxid (1314-56-3)	e Long-term Exposure Limit (mg m ⁻³)	1		UK HSE EH40/2005
	Short-term Exposure Limit (mg m ⁻³)	2		
	Long-term Exposure Limit (ppm)	1		2006/15/EC
Exposure controls				
Engineering measures	nsure there is sufficient ventilation of the are	a.		
	espiratory protective device with particle filte vailable in case of emergency.	r. Self- contained	breathing appa	ratus must be

Protective gloves.

8.2

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	Skin protection Protective clothing					
	Skin protection Protective clothing.					
	Physical and chemical properties					
	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 Relative vapour pressure Particle characteristics	Solid White No data available. No data available.				
	Particle characteristics Other information	No data available.				
	No data available.					
	Stability and reactivity					
1	Reactivity					
	Stable under recommended transport or storage cond	litions.				
2	Chemical stability					
	Stable under normal conditions.					
3	Possibility of hazardous reactions					
	Hazardous reactions					
	Decomposition may occur on exposure to conditions transport or storage conditions.	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					
	Information on toxicological effects					
•	-					
	Acute toxicity Disphosphorus pentoxide					
	1 hr LC50 Rat (Inhalation): 1217 mg/m3 1 hr LC50 Mouse (Inhalation): 271 mg/m3 1 hr LC50 Rabbit (Inhalation): 1689 mg/m3					
	1 hr LC50 Guinea pig (Inhalation): 61 mg/m3					

Diphosphorus pentaoxide

1 hr LC50 Rat (Inhalation): 1217 mg/m3

- 1 hr LC50 Mouse (Inhalation): 271 mg/m3
- 1 hr LC50 Rabbit (Inhalation): 1689 mg/m3
- 1 hr LC50 Guinea pig (Inhalation): 61 mg/m3

b) Skin corrosion/irritation



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Skin corrosion/irritation (Category 1	A)
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C)	Serious eye damage/irritation
	Serious eye damage/eye irritation (Category 1)
d)	Respiratory or skin sensitisation

e) Germ cell mutagenicity No data available.

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.
- Aspiration hazardNo data available.

11.2 Symptoms / routes of exposure

Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be mild irritation at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. The vision may become blurred. There may be pain and redness. There may be severe pain.
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.
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.
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.

12. Ecological information

12.1 Toxicity

No data available.

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.

^{12.6} Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

12.7 Other adverse effects

No data available.

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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				
UN1807	UN1807	UN1807	UN1807	UN1807
14.2. UN proper shipping na	ime			
PHOSPHORUS PENTOXIDE	PHOSPHORUS PENTOXIDE	Phosphorus pentoxide	PHOSPHORUS PENTOXIDE	PHOSPHORUS PENTOXIDE
Transport document descri	ption			
UN1807 PHOSPHORUS PENTOXIDE (PHOSPHORUS(V) OXIDE), 8, II	UN1807 PHOSPHORUS PENTOXIDE (PHOSPHORUS(V) OXIDE), 8, II	UN1807 Phosphorus pentoxide (Phosphorus(V) oxide), 8, II	UN1807 PHOSPHORUS PENTOXIDE (PHOSPHORUS(V) OXIDE), 8, II	UN1807 PHOSPHORUS PENTOXIDE (PHOSPHORUS(V) OXIDE), 8, II
14.3. Transport hazard class	s(es)			
8	8	8	8	8
e e e e e e e e e e e e e e e e e e e	8	B	R R	
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazard	S			
No	No	No	No	No

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

15. 15.1



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H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Abbreviations Full	Texts
Abbreviations Full ADN ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE	Texts European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health European Community Number Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System 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 PBT	Organisation for Economic Cooperations and Development 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
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.

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