

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 Product identifier Product code ::::::::::::::::::::::::::::::::::::		According to REACH F	Regulations (EC) 1907/2006	6 and (EU) 2020/878					
Product code ::::::::::::::::::::::::::::::::::::		Identification of the su	bstance/mixture and of the	e company/undertaking					
Product name ::::::::::::::::::::::::::::::::::::	1	Product identifier							
Unit 5 Leafield Way Fax :: 444 (0) 2033 978 909 Corsham SN13 9SW Email : info@glentham.com United Kingdom Web : www.glentham.com 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		Product name CAS number Physical form REACH Relevant identified use PC21: Laboratory cher Details of the supplier	 alpha-Aluminium oxide N 1344-28-1 solid, substance - nanofe A registration number is are exempted from regist the registration is envisa es of the substance or mixt micals. of the safety data sheet 	orm not available for this su tration, the annual tonn ged for a later registrati t ure and uses advised a	age ion d agair	does not i eadline. ist	require a registration or		
Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number			Unit 5 Leafield Way Corsham SN13 9SW	Fax Email	:	+44 (0) info@gl	2033 978 909 entham.com		
Hazards identification Classification of the substance or mixture Classification under CLP according to (EC) 1272/2008 This product has no classification under CLP. Label elements Label elements Label elements Composition/information on ingredients Voter hazards PBT This product has no tabel elements. Other hazards PBT This substance is not identified as a PBT substance. Composition/information on ingredients Substances Name Identifier alpha-Aluminium oxide Nanopowder, 99+ % CAS: 1344-28-1 EC: REACH: Not applicable First aid measures REACH: Not applicable Skin contact Wash immediately with plenty of scap and water.	4	Emergency telephone	number						
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alpha-Aluminium oxide Nanopowder, 99+ % CAS: 1344-28-1 Not classified EC: REACH: Not applicable First aid measures Image: Constant in the second	1	Substances							
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1 Description of first aid measures Skin contact Wash immediately with plenty of soap and water.		alpha-Aluminium oxio	de Nanopowder, 99+ %	EC: REACH: Not			Not classified		
Skin contact Wash immediately with plenty of soap and water.		First aid measures							
	1	Description of first aid	Description of first aid measures						
Eye contact Bathe the eye with running water for 15 minutes.		Skin contact	Wash immediately with pl	enty of soap and water)	
		Eye contact	Bathe the eye with runnin	g water for 15 minutes.)	

4.2 Most important symptoms and effects, both acute and delayed

Consult a doctor.

Wash out mouth with water.

Ingestion

Inhalation

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	Skin contact	There may be mild irritation at the site of contact.
	Eye contact	There may be irritation and redness.
	Ingestion	There may be irritation of the throat.
	Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects	Immediate effects can be expected after short-term exposure.
4.2		
4.3	Indication of any imm	nediate medical attention and special treatment needed
	No data available.	un t
5.	Fire-fighting measure	95
5.1	Extinguishing media	
	Suitable extinguishing	g media for the surrounding fire should be used.
5.2	Special hazards arisi	ng from the substance or mixture
	Exposure hazards	
	In combustion emits t	oxic fumes.
5.3	Advice for fire-fighter	
	Wear protective cloth	ing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.
6.	Accidental release m	easures
6.1	Personal precautions	s, protective equipment and emergency procedures
	Personal precautions	
	Refer to section 8 of S	SDS for personal protection details.
6.2	Environmental preca	utions
	Do not discharge into	drains or rivers.
6.3		I for containment and cleaning up
	Clean-up procedures	
6.4		e with large amounts of water.
0.4	Reference to other se	
	Refer to section 8 of 8	סעס.
7.	Handling and storage	
7.1	Precautions for safe	handling
	Handling requirements	
	Avoid the formation o	r spread of dust in the air.
7.2	Conditions for safe s	torage, including any incompatibilities
	Storage conditions	
		ter or humidity. Keep container tightly closed. Store in cool, well ventilated area.
7.3	Specific end use(s)	
	No data available.	
8.	Exposure controls/pe	ersonal protection
8.1	Control parameters	
	Workplace exposure limits	

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Substance (CAS)	Control Parameter		Value	Notes	Source
Aluminium oxides inhalable dust respira dust (1344-28-1)	able Long-term Exposu	re Limit (mg m ⁻³)	10,4		UK HSE EH40/2005
Exposure controls					
Engineering measures	No data available.				
Respiratory protection	Respiratory protective dev	ice with particle filter.			
Hand protection	Protective gloves.				
Eye protection	Ensure eye bath is to hand	d. Safety glasses.			
Skin protection	Protective clothing.				
Physical and chemica	l properties				
Information on basic	physical and chemical prope	erties			
Physical state Colour Odour Melting point/Freez Boiling point/initial the Flammability Lower/Upper explose Flash Point Auto-ignition tempe Decomposition tempe Decomposition tempe H Kinematic viscosity Solubility Partition coefficient Vapour pressure Density/relative der Relative vapour pree Particle characteriss Other information No data available.	poiling point/boiling range sion limit arature perature n-octanol/water asity assure	Solid White No data available. No data available. 20 "g/L @ 20 °C No data available. No data available.			
Stability and reactivity	/				
Reactivity					
Stable under recomme	ended transport or storage co	onditions.			
Chemical stability					
Stable under normal c	onditions.				
Possibility of hazardo	us reactions				
Hazardous reactions					
Decomposition may or transport or storage co	ccur on exposure to condition on ditions.	ns or materials listed be	elow. Hazardo	us reactions will	not occur under norma
Conditions to avoid					
Heat.					
Incompatible material	s				
Materials to avoid					

11. Toxicological information

11.1 Information on toxicological effects



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a)	Acute toxicity Aluminium oxides inh LD50 Rat (Oral): >500	nalable dust respirable dust)0 mg/kg				
b)	Skin corrosion/irritation No data available.					
c)	Serious eye damage/irritation No data available.					
d)	Respiratory or skin sensitisation No data available.					
e)	Germ cell mutagenici No data available.	ty				
f)	Carcinogenicity No data available.					
g)	Reproductive toxicity No data available.					
h)	STOT-single exposure No data available.					
i)	STOT-repeated expose No data available.	sure				
j)	Aspiration hazard No data available.					
11.2	Symptoms / routes of exposure					
	Skin contact	There may be mild irritation at the site of contact.				
	Eye contact	There may be irritation and redness.				
	Ingestion	There may be irritation of the throat.				
	Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.				
	Delayed / immediate effects	Immediate effects can be expected after short-term exposure.				
	Other information	No data available.				
12.	Ecological informatio	n				
12.1	Toxicity					
	No data available.					
12.2	Persistence and degr	adability				
	Biodegradable.					
12.3	Bioaccumulative pote	ential				
	No bioaccumulation p	otential.				
12.4	Mobility in soil					
	No data available.					
12.5	Results of PBT and vi					
	This substance is not identified as a PBT substance.					
12.6	Endocrine disrupting					
	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

This product does not require a classification for transport.

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) 2020/787.

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
 No data available.

2019/1021: 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 ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD	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 International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Long Term Exposure Limit No Observable Effective Concentration Organisation for Economic Cooperations and Development
PBT PPE	Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment



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REACH RID	Registration, Evaluation, Authorisation and Restriction of Chemicals 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.

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.