

ATTENUAID

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Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ATTENUAID

CAS number: 9000-90-2

EINECS number: 232-565-6

Product code: ATTENUAID

Synonyms: ALPHA AMYLASE

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Murphy and Son Ltd	
	Murphy & Son Ltd
	Alpine St, Old Basford
	Nottingham
	NG6 0HQ
	United Kingdom
Tel:	(+44) 115 978 5494
Email:	technical@murphyandson.co.uk

1.4. Emergency telephone number

Emergency tel: (+44) 115 978 5494

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification under CLP:	Resp. Sens. 1: H334; -: EUH208	
Most important adverse effects:	Contains amylase, alpha May produce an allergic reaction. May cause allergy or	
	asthma symptoms or breathing difficulties if inhaled.	
2.2. Label elements		
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Label elements:	
Hazard statements:	EUH208: Contains amylase, alpha May produce an allergic reaction.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Hazard pictograms:	GHS08: Health hazard



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Signal words:	Danger
Precautionary statements:	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
	P284: Wear respiratory protection.
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
	P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
	P501: Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

AMYLASE, ALPHA-

EINECS	CAS	PBT / WEL	CLP Classification	Percent
232-565-6	9000-90-2	-	Resp. Sens. 1: H334	30-50%

Section 4: First aid measures

4.1. Description of first aid measures		
Skin contact:	Wash immediately with plenty of soap and water.	
Eye contact:	Bathe the eye with running water for 15 minutes.	
Ingestion:	Wash out mouth with water. Consult a doctor.	
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If	
	conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,	
	place in the recovery position. If breathing becomes bubbly, have the casualty sit and	
	provide oxygen if available. Transfer to hospital as soon as possible.	
4.2. Most important symptoms and effects, both acute and delayed		
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. There may be shortness of breath due to congestion	
	of the lungs.	
Inhalation:	Exposure may cause coughing or wheezing. There may be congestion of the lungs	
	causing severe shortness of breath.	
Delayed / immediate effects:	Delayed effects can be expected after long-term exposure.	
4.3. Indication of any immediate medical attention and special treatment needed		

Immediate / special treatment: Not applicable.

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Section 5: Fire-fighting measures

5.1. Extinguishing media

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

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. 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. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas. Contain the spillage using bunding.

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. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

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7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures:Ensure there is exhaust ventilation of the area.Respiratory protection:Self-contained breathing apparatus must be used in handling.Hand protection:Protective gloves.Eye protection:Safety glasses. Ensure eye bath is to hand.Skin protection:Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid		
Colour:	Brown		
Odour:	Characteristic odour		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	Soluble		
Viscosity:	No data available.		
Boiling point/range°C:	No data available. Meltin	ng point/range°C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	No data available. Part.coeff.	n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	1.09-1.15	pH:	5.5 - 6.5
VOC g/l:	No data available.		

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

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10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

AMYLASE, ALPHA-

ORAL RAT LD50	>2000	mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Respiratory/skin sensitisation	INH	Hazardous: calculated

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. There may be shortness of breath due to congestion of the lungs.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

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12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
Disposal of packaging: Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information			
Other information:	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation		
	(EU) 2015/830		
	* indicates text in the SDS which has changed since the last revision.		
Phrases used in s.2 and s.3:	2 and s.3: EUH208: Contains amylase, alpha May produce an allergic reaction.		
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Legend to abbreviations:	PNEC = predicted no effect concentration		
	DNEL = derived no effect level		
	LD50 = median lethal dose		

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- LC50 = median lethal concentration
- LDLO = lethal dose low
- EC50 = median effective concentration
- IC50 = median inhibitory concentration
- dw = dry weight
- bw = body weight
- cc = closed cup
- oc = open cup
- MUS = mouse
- GPG = guinea pig
- RBT = rabbit
- HAM = hamster
- HMN = human
- MAM = mammal
- PGN = pigeon
- IVN = intravenous
- IPR = intraperitoneal
- SCU = subcutaneous
- ORL = oral
- SKN = skin
- DRM = dermal
- OCC = ocular/corneal
- OPT = optical
- ING = ingestion
- INH = inhalation
- PCP = physico-chemical properties
- Legal disclaimer: 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 company shall not be held liable for any damage resulting from handling or from contact with the above product.