

3,3-DIPHENYL-L-ALANINE

Page: 1

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

1.1. Product identifier

Product name: 3,3-DIPHENYL-L-ALANINE

CAS number: 149597-92-2

Product code: OR14742

Synonyms: (2S)-2-AMINO-3,3-DIPHENYLPROPANOIC ACID

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: Apollo Scientific Ltd

Units 3 & 4 Parkway Denton Manchester M34 3SG UK Tel: 0161 337 9971 Fax: 0161 336 6932 Email: david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 2: H300

Classification under CHIP: T: R25

Most important adverse effects: Fatal if swallowed.

2.2. Label elements

Label elements:

Hazard statements: H300: Fatal if swallowed.

Signal words: Danger

Hazard pictograms: GHS06: Skull and crossbones



Precautionary statements: P264: Wash thoroughly after handling.

3,3-DIPHENYL-L-ALANINE

P260: Do not breathe dust.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P309+311: IF exposed or if you feel unwell: Call a POISON CENTRE or doctor.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 3,3-DIPHENYL-L-ALANINE

CAS number: 149597-92-2

Section 4: First aid measures

4.1. Description of first aid mea	asures	
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.	
	Drench the affected skin with running water for 10 minutes or longer if substance is still	
	on skin. Transfer to hospital if there are burns or symptoms of poisoning.	
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist	
	examination.	
Ingestion:	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.	
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to	
	hospital as soon as possible.	
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:	There may be pain and redness.	
Ingestion:	There may be soreness and redness of the mouth and throat. Severe poisoning can	
	cause unconsciousness and severe and persistent nausea and vomiting. Severe	
	poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can	
	cause vision to be blurred or blindness, severe headache and rapid gasping breathing.	
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Absorption	
	through the lungs can occur causing symptoms similar to those of ingestion. Nausea	
	and stomach pain may occur.	
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.	
4.3. Indication of any immediat	e medical attention and special treatment needed	
Immediate / special treatment:	Immediate medical attention is required. Show this safety data sheet to the doctor in	
	attendance.	

[cont...]

Page: 2

3,3-DIPHENYL-L-ALANINE

Page: 3

1. Extinguishing media	
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the
	surrounding fire should be used. Use water spray to cool containers.
Special hazards arising fro	om the substance or mixture
Exposure hazards:	Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen
	oxides (NOx).
Advice for fire-fighters	
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact
	with skin and eyes.
on 6: Accidental release r	neasures
Personal precautions, prot	ective equipment and emergency procedures
Personal precautions:	Notify the police and fire brigade immediately. 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. Do not create dust.
Environmental precautions	3
nvironmental precautions:	Do not discharge into drains or rivers.
Methods and material for o	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.
Reference to other section	S
ference to other sections:	Refer to section 8 of SDS.
on 7: Handling and storage	ge
. Precautions for safe handl	ing
nationing requirements:	Avoid the formation or spread of dust in the air. Ensure there is sufficient ventilation of
Conditions for outside	the area. Only use in fume hood.
	e, including any incompatibilities
	Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging:	Must only be kept in original packaging.
. Specific end use(s)	
Specific end use(s):	No data available.

Specific end use(s): No data available.

3,3-DIPHENYL-L-ALANINE

Page: 4

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 sufficient ventilation of the area.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Respiratory
	protective device with particle filter.
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: Powder

Colour: Off-white

Part.coeff. n-octanol/water: logPow: 0.492

9.2. Other information

Other information: Decomposition Temperature: 240 °C

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

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.

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 of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx).

3,3-DIPHENYL-L-ALANINE

Basis

Relevant hazards for substance: Hazard Route ING Acute toxicity (ac. tox. 2) Based on test data Symptoms / routes of exposure Skin contact: There may be irritation and redness at the site of contact. Eye contact: There may be pain and redness. Ingestion: There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Nausea and stomach pain may occur. Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

Section 11: Toxicological information

11.1. Information on toxicological effects

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

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: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND

FEDERAL REGULATIONS

Disposal of packaging: Dispose of as special waste in compliance with local and national regulations Observe

all federal, state and local environmental regulations.

3,3-DIPHENYL-L-ALANINE

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

Marine pollutant: No

regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2811

14.2. UN proper shipping name

Shipping name: TOXIC SOLID, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: |||

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

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

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Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
	* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by
	decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?
	c=TOXTREE
	~ Data predicted using computational software ACD/ToxSuite v 2.95.1 Copyright 1994-
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry
	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/
Phrases used in s.2 and s.3:	H300: Fatal if swallowed.
	R25: Toxic if swallowed.

Page: 6

3,3-DIPHENYL-L-ALANINE

Legend to abbreviations: PNEC = predicted no effect level

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

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

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

PCP = phycico-chemical properties

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