

2-(TRIBUTYLSTANNYL)OXAZOLE

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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: 2-(TRIBUTYLSTANNYL)OXAZOLE

CAS number: 145214-05-7

Product code: OR52460

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. 3: H301; Acute Tox. 4: H312; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	
	Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT RE 1: H372	
Most important adverse effects:	Toxic if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious	
	eye irritation. Causes damage to organs through prolonged or repeated exposure. Very	
	toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
2.2. Label elements		
Label elements:		
Hazard statements:	H301: Toxic if swallowed.	
	H312: Harmful in contact with skin.	
	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
	H372: Causes damage to organs through prolonged or repeated exposure.	
	H400: Very toxic to aquatic life.	
	H410: Very toxic to aquatic life with long lasting effects.	

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Signal words: Danger Hazard pictograms: GHS06: Skull and crossbones GHS08: Health hazard GHS09: Environmental



Precautionary statements: P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/. P273: Avoid release to the environment.

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

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: 2-(TRIBUTYLSTANNYL)OXAZOLE

CAS number: 145214-05-7

Section 4: First aid measures

4.1. Description of first aid measures		
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:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water	
	to drink immediately. If unconscious, check for breathing and apply artificial respiration if	
	necessary. 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. If	
	conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK,	
	place in the recovery position. If unconscious, check for breathing and apply artificial	
	respiration if necessary. 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 redness or whiteness of the skin in the area of exposure. Irritation or pain	
	may occur at the site of contact. Absorption through the skin may be fatal.	

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting.

Convulsions may occur. There may be loss of consciousness.

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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.

Convulsions may occur. There may be loss of consciousness.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. 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.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Toxic. In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx). Tin/Tin oxides

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. 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

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area.

Avoid the formation or spread of mists in the air. Only use in fume hood.

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

7.2. Conditions for safe storage, including any incompatibilities

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storage room must be impermeable to prevent the escape of liquids. Suitable packaging: Must only be kept in original packaging. 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. The floor of the storage room must be impermeable to prevent the escape of liquids. **Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. Hand protection: Impermeable gloves. Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand. Skin protection: Impermeable protective clothing. Section 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties State: Liquid Colour: Colourless Boiling point/range °C: 108 Flash point °C: 110 Relative density: 1.71 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. 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.

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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 of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx). Tin/Tin oxides

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM	Hazardous: calculated
Acute toxicity (ac. tox. 3)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain

may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

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.

Convulsions may occur. There may be loss of consciousness.

Section 12: Ecological information

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.

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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: Toxic to aquatic organisms.

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.

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

Section 14: Transport information

14.1. UN number

UN number: UN2788

14.2. UN proper shipping name

Shipping name: ORGANOTIN COMPOUND, LIQUID, N.O.S.

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Marine pollutant: Yes

Tunnel code: E

Transport category: 2

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.

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Section 16: Other information

Other information	
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:	H301: Toxic if swallowed.
	H312: Harmful in contact with skin.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H372: Causes damage to organs <or affected,="" all="" if="" known="" organs="" state=""> through</or>
	prolonged or repeated exposure <state conclusively="" exposure="" if="" is="" it="" of="" proven="" route="" td="" that<=""></state>
	no other routes of exposure cause the hazard>.
	H400: Very toxic to aquatic life.
	H410: Very toxic to aquatic life with long lasting effects.
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	by those who have been fully trained in safety, laboratory and chemical handling
	procedures. The above information is believed to be correct to the best of our
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