

# Aro-Bond 537 (Aro-Bond DX5949) **Ureka Global Ltd**

Version No: 2.5

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Chemwatch Hazard Alert Code: 2

Issue Date: 14/10/2022 Print Date: 17/10/2022 S.REACH.GB.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### 1.1. Product Identifier

Product name	Aro-Bond 537 (Aro-Bond DX5949)	
Chemical Name	Chemical Name Not Applicable	
Synonyms Not Available		
Chemical formula	Not Applicable	
Other means of identification	UFI:URFH-V0SS-M00C-K5GW	

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

Relevant identified uses	Adhesive.
Uses advised against	Not Applicable

# 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Ureka Global Ltd		
Address	7 Flowers Hill Bristol BS4 5JJ United Kingdom		
Telephone         +44 (0)117 971 1364           Fax         Not Available           Website         www.thenamethatsticks.com			
		Email	sales@thenamethatsticks.com

# 1.4. Emergency telephone number

Association / Organisation	Ureka Global Ltd	
Emergency telephone numbers	+44 (0)117 971 1364 (Mon - Fri 09:00 - 16:00)	
Other emergency telephone numbers	Not Available	

# **SECTION 2 Hazards identification**

# 2.1. Classification of the substance or mixture

Classified according to **GB-CLP** Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]

Not Applicable

# 2.2. Label elements

Hazard pictogram(s) Not Applicable

Not Applicable Signal word

# Hazard statement(s)

Not Applicable

# Supplementary statement(s)

EUH208	Contains . May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Version No: 2.5 Page 2 of 10 Issue Date: 14/10/2022 Print Date: 17/10/2022

# Aro-Bond 537 (Aro-Bond DX5949)

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

#### 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

# **SECTION 3 Composition / information on ingredients**

#### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

#### 3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1.2634-33-5 2.220-120-9 3.613-088-00-6 4.Not Available	<1	1,2-benzisothiazoline-3-one	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Acute Hazard Category 1; H302, H315, H318, H317, H400 [2]		Not Available
1.2682-20-4 2.220-239-6 3.613-326-00-9 4.Not Available	<1	2-methyl- 4-isothiazolin-3-one	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 3, Acute Toxicity (Inhalation) Category 2, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Skin) Category 1A, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H311, H330, H314, H318, H317, H400, H410 [2]	Skin Sens. 1A; H317: C ≥ 0,0015 %   M=10   M=1	Not Available
Legend	<u> </u>	*	drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI a	2020/1567; 3. Clas	ssification drawn

# **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  Wash out immediately with water.  If irritation continues, seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

# 5.3. Advice for firefighters

Fire Fighting

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.

Version No: 2.5 Page 3 of 10 Issue Date: 14/10/2022 Print Date: 17/10/2022

#### Aro-Bond 537 (Aro-Bond DX5949)

Prevent, by any means available, spillage from entering drains or water courses. Fire/Explosion Hazard ▶ Not considered a significant fire risk, however containers may burn. May emit corrosive fumes

# **SECTION 6 Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

# 6.3. Methods and material for containment and cleaning up

Clean up all spills immediately. **Minor Spills** Avoid breathing vapours and contact with skin and eyes. ▶ Control personal contact with the substance, by using protective equipment. Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite. ▶ The absorbent (and surface soil to a depth sufficient to remove all of the biocide) should be shovelled into a drum and treated with an 11% **Major Spills** solution of sodium metabisulfite (Na2S2O5) or sodium bisulfite (NaHSO3), or 12% sodium sulfite (Na2SO3) and 8% hydrochloric acid (HCI). ▶ Glutathione has also been used to inactivate the isothiazolinones.

#### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

# 7.1. Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Fire and explosion protection	See section 5
Other information	

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

# 7.3. Specific end use(s)

See section 1.2

# **SECTION 8 Exposure controls / personal protection**

#### 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
1,2-benzisothiazoline-3-one	Dermal 0.966 mg/kg bw/day (Systemic, Chronic) Inhalation 6.81 mg/m³ (Systemic, Chronic) Dermal 0.345 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.2 mg/m³ (Systemic, Chronic) *	4.03 μg/L (Water (Fresh)) 0.403 μg/L (Water - Intermittent release) 1.1 μg/L (Water (Marine)) 49.9 μg/kg sediment dw (Sediment (Fresh Water)) 4.99 μg/kg sediment dw (Sediment (Marine)) 3 mg/kg soil dw (Soil) 1.03 mg/L (STP)
Inhalation 0.021 mg/m³ (Local, Chronic) Inhalation 0.043 mg/m³ (Local, Acute)  2-methyl-4-isothiazolin-3-one  2-methyl-4-isothiazolin-3-one  Inhalation 0.021 mg/m³ (Local, Chronic) *  Inhalation 0.021 mg/m³ (Local, Chronic) *  Oral 0.053 mg/kg bw/day (Systemic, Acute) *  Inhalation 0.043 mg/m³ (Local, Acute) *		3.39 µg/L (Water (Fresh)) 3.39 µg/L (Water - Intermittent release) 3.39 µg/L (Water (Marine)) 0.047 mg/kg soil dw (Soil) 0.23 mg/L (STP)

<sup>\*</sup> Values for General Population

#### Occupational Exposure Limits (OEL)

#### **INGREDIENT DATA**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

# Not Applicable

Version No: 2.5 Page 4 of 10 Issue Date: 14/10/2022 Print Date: 17/10/2022

# Aro-Bond 537 (Aro-Bond DX5949)

Ingredient	TEEL-1	TEEL-2		TEEL-3	
Aro-Bond 537 (Aro-Bond DX5949)	Not Available	Not Available		Not Available	
Ingredient	Original IDLH		Revised IDLH		
1,2-benzisothiazoline-3-one	Not Available		Not Available		
2-methyl-4-isothiazolin-3-one	Not Available		Not Available		
Occupational Exposure Bandin	ng				
Ingredient Occupational Exposure Band Rating Occupational Exposure Band Limit					
1,2-benzisothiazoline-3-one	E		≤ 0.01 mg/m³		
2-methyl-4-isothiazolin-3-one	D		> 0.01 to ≤ 0.1 mg/m³		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.				

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

#### 8.2.2. Personal protection





# Eye and face protection

- Safety glasses with side shields.
- ► Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

# Skin protection

#### See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

- NOTE: ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective

equipment, to avoid all possible skin contact. ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

Hands/feet protection The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

- ▶ Butyl rubber gloves
- · Nitrile rubber gloves (Note: Nitric acid penetrates nitrile gloves in a few minutes.)

Body	pro	ection	
Other	prof	ection	

See Other protection below

Barrier cream.

# 8.2.3. Environmental exposure controls

See section 12

# **SECTION 9 Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Appearance	Liquid.		
Physical state	Liquid	Relative density (Water = 1)	1.0-1.2
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Viscous
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Negligible	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available

Version No: 2.5 Page 5 of 10 Issue Date: 14/10/2022 Print Date: 17/10/2022

# Aro-Bond 537 (Aro-Bond DX5949)

Solubility in water	Miscible	pH as a solution (Not Available%)	~3-5
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

#### 9.2. Other information

Not Available

# **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal

# **SECTION 11 Toxicological information**

#### 11.1. Information on toxicological effects

	models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  Taken by mouth, isothiazolinones have moderate to high toxicity. The major signs of toxicity are severe stomach irritation, lethargy, and inco-ordination.		
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  A 0.5% solution of 1,2-benzisothiazoline-3-one (BIT) is irritating to the skin. Even 0.05% can cause allergy, according to patch tests, with reddening of the skin.  Provocation tests with BIT showed the material to be sensitizing.  Solutions of isothiazolinones may be irritating or even damaging to the skin, depending on concentration. A concentration of over 0.1% can irritate, and over 0.5% can cause severe irritation.		
Еуе	characterised by tearing or conjunctival redness (as with	nucous membranes and cornea. Animal testing showed very low concentrations (under	
Chronic	In animal testing, 1,2-benzisothiazoline-3-one (BIT) did or an increase in cancer. Mild anaemia, reduction in food	sensitisation reaction in some persons compared to the general population.  not cause toxicity to the embryo or birth defects. The material does not cause mutations d intake and changes in organ weights did occur in a long-term study.  sitisation is more likely with the chlorinated species as opposed to the non-chlorinated	
Aro-Bond 537 (Aro-Bond	TOXICITY	IRRITATION	
Aro-Bond 537 (Aro-Bond DX5949)	TOXICITY  Not Available	IRRITATION  Not Available	
	Not Available	Not Available	
DX5949)	Not Available  TOXICITY	Not Available  IRRITATION	
DX5949)	Not Available  TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available  IRRITATION  Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	
DX5949)  1,2-benzisothiazoline-3-one	Not Available  TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral (Rat) LD50; 454 mg/kg <sup>[1]</sup>	Not Available  IRRITATION  Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
DX5949)	Not Available  TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral (Rat) LD50; 454 mg/kg <sup>[1]</sup> TOXICITY	Not Available  IRRITATION  Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION	
DX5949)  1,2-benzisothiazoline-3-one	Not Available  TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral (Rat) LD50; 454 mg/kg <sup>[1]</sup> TOXICITY  dermal (rat) LD50: 242 mg/kg <sup>[1]</sup>	Not Available  IRRITATION  Eye: adverse effect observed (irreversible damage) <sup>[1]</sup> Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION  Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>	

#### 1,2-BENZISOTHIAZOLINE-3-ONE

The predominant fate of the thiazole ring is oxidative ring scission catalysed by cytochrome P450 (CYP) and formation of the corresponding alpha-dicarbonyl metabolites and thioamide derivatives. The well-established toxicity associated with thioamides and thioamide and thioamide derivatives. speculation that thiazole toxicity is attributed to ring scission yielding the corresponding thioamide metabolite. Ring opening has also been observed in benzothiazoles.

Acute toxicity data show that 1,2-benzisothiazoline-3-one (BIT) is moderately toxic by the oral and dermal routes but that this chemical is a

Version No: **2.5** Page **6** of **10** Issue Date: **14/10/2022** 

# Aro-Bond 537 (Aro-Bond DX5949)

Print Date: 17/10/2022

severe eye irritant. Irritation to the skin from acute data show only mild skin irritation, but repeated dermal application indicated a more significant skin irritation response.

The neurotoxicity observed in the rat acute oral toxicity study (piloerection and upward curvature of the spine at 300 mg/kg and above; decreased activity, prostration, decreased abdominal muscle tone, reduced righting reflex, and decreased rate and depth of breathing at 900 mg/kg) and the acute dermal toxicity study (upward curvature of the spine was observed in increased incidence, but this was absent after day 5 post-dose at a dose of 2000 mg/kg) were felt to be at exposures in excess of those expected from the use pattern of this pesticide and that such effects would not be observed at estimated exposure doses.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant.

Based on laboratory and animal testing, exposure to the material may result in irreversible effects and mutations in humans. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

#### 2-METHYL-4-ISOTHIAZOLIN-3-ONE

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Formaldehyde generators (releasers) are often used as preservatives. The maximum authorised concentration of free formaldehyde is 0.2% and must be labelled with the warning sign "contains formaldehyde" where the concentration exceeds 0.05%. The use of formaldehyde-releasing preservatives ensures that the level of free formaldehyde in the products is always low but sufficient to inhibit microbial growth - it disrupts metabolism to cause death of the organism. However there is a concern that formaldehyde generators can produce amines capable of causing cancers (nitrosamines) when used in formulations containing amines.

NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular DNA.

Considered to be a minor sensitiser in Kathon CG (1) (1). Bruze et al - Contact Dermatitis 20: 219-39, 1989

#### Aro-Bond 537 (Aro-Bond DX5949) & 1,2-BENZISOTHIAZOLINE-3-ONE & 2-METHYL-4-ISOTHIAZOLIN-3-ONE

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.

#### 1,2-BENZISOTHIAZOLINE-3-ONE & 2-METHYL-4-ISOTHIAZOLIN-3-ONE

In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance.

Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	x	Aspiration Hazard	x

Leaend:

— Data either not available or does not fill the criteria for classification

Data available to make classification

# 11.2 Information on other hazards

#### 11.2.1. Endocrine Disruption Properties

Not Available

#### **SECTION 12 Ecological information**

# 12.1. Toxicity

Aro-Bond 537 (Aro-Bond DX5949)	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	0.097mg/L	4
1,2-benzisothiazoline-3-one	EC50(ECx)	48h	Crustacea	Crustacea 0.097mg/L	
	LC50	96h	Fish	0.067-0.29mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	0.189-0.257mg/L	4
2-methyl-4-isothiazolin-3-one	NOEC(ECx)	96h	Algae or other aquatic plants	0.01mg/l	2
	LC50	96h	Fish	0.081-0.122mg/L	4
	EC50	96h	Algae or other aquatic plants	0.063mg/l	2

Environmental Fate: Isothiazolinones are antimicrobials used to control bacteria, fungi, and for wood preservation and antifouling agents. They are frequently used in personal care products such as shampoos and other hair care products, as well as certain paint formulations. The most common isothiazolinone combinations are 5-chloro-2-methyl-4-isothiazolin-3-one, (CMI), and 2-methyl-4-isothiazolin-3-one, (MI).

Version No: 2.5 Page **7** of **10** Issue Date: 14/10/2022 Print Date: 17/10/2022

# Aro-Bond 537 (Aro-Bond DX5949)

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2-methyl-4-isothiazolin-3-one	HIGH	HIGH

# 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
2-methyl-4-isothiazolin-3-one	LOW (LogKOW = -0.8767)

#### 12.4. Mobility in soil

Ingredient	Mobility
2-methyl-4-isothiazolin-3-one	LOW (KOC = 27.88)

#### 12.5. Results of PBT and vPvB assessment

	P	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
PBT vPvB	×	X	×	
PBT Criteria fulfilled?			No	
vPvB			No	

#### 12.6. Endocrine Disruption Properties

Not Available

#### 12.7. Other adverse effects

Not Available

# **SECTION 13 Disposal considerations**

# 13.1. Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- Product / Packaging disposal DO NOT allow wash water from cleaning or process equipment to enter drains.
  - It may be necessary to collect all wash water for treatment before disposal.
  - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
  - Recycle wherever possible.
  - Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
  - Pi Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

Waste treatment options Sewage disposal options

Not Available Not Available

# **SECTION 14 Transport information**

# **Labels Required**

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Class Not Applicable Subrisk Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Hazard identification (Kemler)  Classification code  Not Applicable  Hazard Label  Not Applicable	

Version No: 2.5 Page 8 of 10 Issue Date: 14/10/2022 Print Date: 17/10/2022

# Aro-Bond 537 (Aro-Bond DX5949)

Special provisions	Not Applicable
Limited quantity	Not Applicable
Tunnel Restriction Code	Not Applicable

# Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
	ICAO/IATA Class	Not Applicable	
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable	
ciass(es)	ERG Code	Not Applicable	
4.4. Packing group	Not Applicable	Not Applicable	
4.5. Environmental hazard	Not Applicable		
	Special provisions		Not Applicable
	Cargo Only Packing Ir	nstructions	Not Applicable
	Cargo Only Maximum	Qty / Pack	Not Applicable
14.6. Special precautions for user	Passenger and Cargo	Packing Instructions	Not Applicable
	Passenger and Cargo	Maximum Qty / Pack	Not Applicable
	Passenger and Cargo	Limited Quantity Packing Instructions	Not Applicable
	Passenger and Cargo	Limited Maximum Qty / Pack	Not Applicable

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG Class Not Applicable  IMDG Subrisk Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable	

# Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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14.1. UN number	Not Applicable
14.2. UN proper shipping name	Not Applicable
14.3. Transport hazard class(es)	Not Applicable Not Applicable
14.4. Packing group	Not Applicable
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	Classification code Not Applicable  Special provisions Not Applicable  Limited quantity Not Applicable  Equipment required Not Applicable  Fire cones number Not Applicable

# 14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

# 14.8. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

•	
Product name	Group
1,2-benzisothiazoline-3-one	Not Available
2-methyl-4-isothiazolin-3-one	Not Available

# 14.9. Transport in bulk in accordance with the ICG Code

Product name	Ship Type
1,2-benzisothiazoline-3-one	Not Available

Version No: 2.5 Page 9 of 10 Issue Date: 14/10/2022 Print Date: 17/10/2022

# Aro-Bond 537 (Aro-Bond DX5949)

Product name Ship Type 2-methyl-4-isothiazolin-3-one Not Available

# **SECTION 15 Regulatory information**

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

#### 1,2-benzisothiazoline-3-one is found on the following regulatory lists

Great Britain GB Biocidal Active Substances Great Britain GB mandatory classification and labelling list (GB MCL)

#### 2-methyl-4-isothiazolin-3-one is found on the following regulatory lists

Great Britain GB Biocidal Active Substances

Great Britain GB mandatory classification and labelling list (GB MCL)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, -2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# **ECHA SUMMARY**

Ingredient	CAS number	Index No	ECHA Dossier
1,2-benzisothiazoline-3-one	2634-33-5	613-088-00-6	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Sens. 1; Aquatic Chronic 3; Skin Irrit. 2; Eye Irrit. 2; Aquatic Chronic 4; Skin Corr. 1C; Acute Tox. 4; Acute Tox. 4; Acute Tox. 4; STOT SE 3	GHS05; Dgr	H317; H412; H319; H314; H302; H312; H332; H335
2	Skin Sens. 1; Aquatic Chronic 3; Eye Irrit. 2; Skin Corr. 1C; Acute Tox. 4; Acute Tox. 4; Acute Tox. 4; STOT SE 3	GHS05; Dgr	H317; H412; H319; H314; H302; H312; H332; H335

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
2-methyl-4-isothiazolin-3-one	2682-20-4	613-326-00-9	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Sens. 1; Aquatic Chronic 3; Skin Irrit. 2; Eye Irrit. 2; Aquatic Chronic 4; Skin Corr. 1C; Acute Tox. 4; Acute Tox. 4; Acute Tox. 4; STOT SE 3	GHS05; Dgr	H317; H412; H319; H314; H302; H312; H332; H335
2	Skin Sens. 1; Aquatic Chronic 3; Eye Irrit. 2; Skin Corr. 1C; Acute Tox. 4; Acute Tox. 4; Acute Tox. 4; STOT SE 3	GHS05; Dgr	H317; H412; H319; H314; H302; H312; H332; H335

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

# **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (1,2-benzisothiazoline-3-one; 2-methyl-4-isothiazolin-3-one)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

# **SECTION 16 Other information**

Revision Date	14/10/2022
Initial Date	01/06/2022

# Full text Risk and Hazard codes

H301 Toxic if swallowed. Version No: 2.5 Page **10** of **10** Issue Date: 14/10/2022

#### Aro-Bond 537 (Aro-Bond DX5949)

Print Date: 17/10/2022

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.5	14/10/2022	Ingredients, Name

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

# **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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