

Phalloidin Apollo Scientific

Part Number: BIP0842 Version No: 1.1 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code: 4

Issue Date: **16/09/2022** Print Date: **31/07/2023** S.REACH.GBR.EN

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

1.1. Product Identifier

Product name	halloidin				
Chemical Name	alloidin				
Synonyms	t Available				
Proper shipping name	KINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.				
Chemical formula	35-H48-N8-O11-S				
Other means of identification	Not Available				
CAS number	17466-45-4				
EC number	241-484-5				

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

Relevant identified uses	Not Available	
Uses advised against	No specific uses advised against are identified.	

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

Registered company name	Apollo Scientific			
Address	nitefield Road, Bredbury SK62QR United Kingdom			
Telephone	4060505			
Fax	161 406 0506			
Website	http://www.apolloscientific.co.uk/			
Email	sales@apolloscientific.co.uk			

1.4. Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to	
regulation (EC) No ⊢	H300 - Acute Toxicity (Oral) Category 1, H310 - Acute Toxicity (Dermal) Category 1, H330 - Acute Toxicity (Inhalation) Category 1

Phalloidin

1272/2008 [CLP] and amendments ^[1]	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

2.2. Label elements



Hazard statement(s)

H300	Fatal if swallowed.		
H310	atal in contact with skin.		
H330	Fatal if inhaled.		

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume.				
P262	o not get in eyes, on skin, or on clothing.				
P264	sh all exposed external body areas thoroughly after handling.				
P270	not eat, drink or smoke when using this product.				
P271	Use only outdoors or in a well-ventilated area.				
P280	Wear protective gloves and protective clothing.				
P284	[In case of inadequate ventilation] wear respiratory protection.				

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P330	Rinse mouth.			
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.			
P302+P352	P302+P352 IF ON SKIN: Wash with plenty of water.			

Precautionary statement(s) Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.		
P405	Store locked up.		

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

Inhalation and/or ingestion may produce serious health damage*.

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

1. CAS No
2.EC No
3.Index No
4.REACH No

SCL / M-Factor

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
Not Available	100	Phalloidin	Not Applicable	Not Applicable	Not Available

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

3.2.Mixtures

See 'Information on ingredients' in section 3.1

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 or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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.

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- -----
- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- + Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

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

Fire Fighting		 Veral bleating apparatus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If each ta do so, remenue containers from path of fire. 	
	Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous 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

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

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

	5
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials.

	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	Always wash hands with soap and water after handling.
	Work clothes should be laundered separately. Launder contaminated clothing before re-use.
	Use good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this SDS.
	Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are
	maintained.
Fire and explosion protection	See section 5
	Store in original containers.
	Keep containers securely sealed.
O (1)	Store in a cool, dry, well-ventilated area.
Other information	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and low pressure tubes and cartridges may be used. Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages *. In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage *. * unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 1272/2008	H1: Acute Toxic
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	H1 Lower- / Upper-tier requirements: 5 / 20

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
Not Available	Not Available	Not Available

* Values for General Population

Occupational Exposure Limits (OEL)

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Phalloidin	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
Phalloidin	Not Available		Not Available	

8.2. Exposure 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. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation					
	that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.					
	obtain adequate protection. Supplied-air type respirator may ensure adequate protection. An approved self contained breathing apparatus (SCBA) ma	Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.				
	Provide adequate ventilation in warehouse or closed storage "escape" velocities which, in turn, determine the "capture vel	-				
	contaminant.					
	Type of Contaminant:	Air Speed:				
8.2.1. Appropriate engineering controls	solvent, vapours, degreasing etc., evaporating from tank (i	0.25-0.5 m/s (50-100 f/min.)				
	aerosols, fumes from pouring operations, intermittent conta welding, spray drift, plating acid fumes, pickling (released a generation)	0.5-1 m/s (100-200 f/min.)				
	direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)				
	grinding, abrasive blasting, tumbling, high speed wheel ge velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)				
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Large hood or large air mass in motion 4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance generally decreases with the square of distance from the ext extraction point should be adjusted, accordingly, after referent extraction fan, for example, should be a minimum of 1-2 m/s meters distant from the extraction point. Other mechanical co apparatus, make it essential that theoretical air velocities are installed or used. Air should be supplied by an independent system.	raction point (in simple cases). Therefore the nee to distance from the contaminating sourc (200-400 f/min) for extraction of solvents ger onsiderations, producing performance deficits	air speed at the e. The air velocity at the nerated in a tank 2 s within the extraction			
3.2.2. Individual protection measures, such as						

measures, such as personal protective

equipment



- Safety glasses with side shields
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

	Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].
Skin protection	See Hand protection below
Hands/feet protection	 Wear general protective gloves, eg. light weight rubber gloves. 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. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: requency and duration of contact. chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time < 20 min Fair when breakthrough time < 20 min Fair when breakthrough time < 20 min For ownen glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. Note: Deepndaing on the glove wi
Body protection	See Other protection below
Other protection	 Overalls. Eyewash unit. Barrier cream. Skin cleansing cream. Handle extremely poisonous natural toxins in closed systems such as glove bags or other enclosures, to avoid accidental contact. Workers should wear complete disposable clothing including shoe covers, gloves and mask with an independent air supply.

Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic

compounds(below 65 degC)

The use of a disposable filtering facepiece respirator is required when working with toxins in solution if there is a concern for aerosol generation.

Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

• Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

• Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

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	White		
Physical state	Solid	Relative density (Water = 1)	Not Available
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)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
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	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2

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	10.4. Conditions to avoid	See section 7.2		
	10.5. Incompatible materials	See section 7.2		
	10.6. Hazardous	See section 5.3		

SECTION 11 Toxicological information

decomposition products

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on toxicological effects

	ΤΟΧΙΟΙΤΥ	IRRITATION	
Chronic	Long-term exposure to the product is not thought to produce chrousing animal models); nevertheless exposure by all routes should		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.		
Skin Contact	The material is not thought to produce adverse health effects or susing animal models). Nevertheless, good hygiene practice require be used in an occupational setting.	5	
Ingestion	The material has NOT been classified by EC Directives or other of the lack of corroborating animal or human evidence.	classification systems as "harmful by ingestion". This is because	
Inhaled	The material is not thought to produce adverse health effects or i using animal models). Nevertheless, good hygiene practice requi measures be used in an occupational setting.		

	ΤΟΧΙΟΙΤΥ	IRRITATION	
Phalloidin	Oral (Mammal) LD50; 2 mg/kg ^[2]	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
Legend: 🔀 – Data either not available or does not fill the criteria for classification			

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Phalloidin	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	4. US EPA, E	n 1. IUCLID Toxicity Data 2. Europe ECHA R icotox database - Aquatic Toxicity Data 5. EC tion Data 7. METI (Japan) - Bioconcentration	ETOC Aquatic Hazard Assessment Data 6. I	•	

12.2. Persistence and degradability

Ingredient

Persistence: Water/Soil

Data available to make classification

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

	Р	В	т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?	No			
vPvB	No			

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

Product / Packaging are any biohazard symbols visible or covered. Liquid waste: > Do NOT add bleach or any other chemical to deactivate. > Collect waste in glass or plastic containers with screw cap lids. > Label containers as to the contents – list all chemicals in the liquid waste including the biotoxin. Do NOT label with a biohazard symbol. You will be required to repackage the waste if there are any biohazard symbols visible or covered. For all wastes: > Submit a chemical waste pickup request form to the appropriate department/ administrator (before working with biotoxins identify all agents responsible for administering work-flow) . > Indicate the maximum amount of toxin present in the waste on the form (this is to verify that quantities do not qualify for regulation as select agents. Some labs have found it useful to place a bag in a container that has a lid to minimise exposure. The container holding the bag should be clearly marked so that janitorial/ custodial staff does not mistake it for regular trash. • When full, seal bag and confirm the label on the bag is accurate. • Submit a chemical waste pickup request form to the appropriate department/ administrator (before working with biotoxins identify all agents responsible for administering work-flow) • When full, seal bag and confirm the label on the bag is accurate. • Submit a chemical waste pickup request form to the appropriate department/ administrator (before working with biotoxins identify all agents responsible for administering work-flow) • Indicate the maximum amount of toxin present in the waste on th	13.1. Waste treatment me	thods
		 The following disposal instructions have been developed to ensure all the non-proteinaceous biotoxin wastes are disposed in a manner that is consistent and safe for all personnel involved. Note: Additional instructions may apply to biotoxins regulated as "select agents". A biotoxin is regulated as a select agent only if the aggregate amount of the biotoxin under the control of a principal investigator exceeds a certain predefined amount. For biotoxins containing non-proteinaceous biotoxins (includes biotoxin contaminated debris) Solid waste: (Debris includes disposable items such as gloves, labcoats, absorbent paper, plastic pipette tips and empty containers) > Do NOT add bleach or any other chemical to deactivate. > Place the contaminated items directly in a puncture-resistant bag, no larger than 40 litre in size (small trash can size) and keep weight below 10 kg. The bag must be labeled with the contents – e.g. aflatoxin contaminated debris. > Do not use biohazard bags or anything marked with a biohazard symbol. You will be required to repackage the waste if there are any biohazard symbols visible or covered. Liquid waste: > Do NOT add bleach or any other chemical to deactivate. > Collect waste in glass or plastic containers with screw cap lids. > Label containers as to the contents – list all chemicals in the liquid waste including the biotoxin. Do NOT label with a biohazard symbol. You will be required to repackage the waste if there are any biohazard symbols visible or covered. For all wastes: > Submit a chemical waste pickup request form to the appropriate department/ administrator (before working with biotoxins identify all agents responsible for administering work-flow). > Indicate the maximum amount of toxin present in the waste on the form (this is to verify that quantities do not qualify for regulation as select agents. Sobmit a chemical waste pickup request

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	taken with any sharp item, contarr Pasteur pipettes; scalpel or razor	· ·	21	r other medical needles and syringes;
	glassware in contact with the bioto	oxin must be placed immed	liately upon disposal into a	sharps disposal container.
	1-litre, 8-litre, and 25-litre sizes	osable, puncture resistant,	leak-proof on the sides and	d bottoms, and available in (typically)

Sharps disposal containers are closable, puncture resistant, leak-proof on the sides and bottoms, and available in (typically) 1-litre, 8-litre, and 25-litre sizes. When discarding sharps:
Place the item into the sharps disposal container, immediately following use.
Never empty the contents of the sharps disposal container into another container.
Never remove the lid from the container.
Never overfill a sharps disposal container; no materials should be sticking out the top.
Never force materials into a sharps disposal container
Recycle wherever possible or consult manufacturer for recycling options.
Consult State Land Waste Management Authority for disposal.
Bury residue in an authorised landfill.
Recycle containers if possible, or dispose of in an authorised landfill.

	Recycle containers if possible, or dispose of in an authorised landfill.		
Waste treatment options	Not Available		
Sewage disposal options	Not Available		

SECTION 14 Transport information

Labels Required

	6
Marine Pollutant	NO
HAZCHEM	2X

Land transport (ADR-RID)

14.1. UN number or ID number	3462	3462		
14.2. UN proper shipping name	TOXINS, EXTRAC	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.		
14.3. Transport hazard	Class	Class 6.1		
class(es)	Subsidiary risk	Not Applicab	ble	
14.4. Packing group	Ш	I		
14.5. Environmental hazard	Not Applicable	Not Applicable		
	Hazard identifica	ation (Kemler)	60	
	Classification code		T2	
14.6. Special precautions	6. Special precautions Hazard Label		6.1	
for user	Special provisions		210 274	
	Limited quantity		500 g	
	Tunnel Restriction	on Code	2 (D/E)	

Air transport (ICAO-IATA / DGR)

14.1. UN number	3462	3462		
14.2. UN proper shipping name	Toxins, extracted from living sources, solid, n.o.s. *			
	ICAO/IATA Class	6.1		
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
0.000(00)	ERG Code	6L		
14.4. Packing group	II			
14.5. Environmental hazard	Not Applicable			

	Special provisions	A3 A43
	Cargo Only Packing Instructions	676
	Cargo Only Maximum Qty / Pack	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions	669
	Passenger and Cargo Maximum Qty / Pack	25 kg
	Passenger and Cargo Limited Quantity Packing Instructions	Y644
	Passenger and Cargo Limited Maximum Qty / Pack	1 kg

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3462	3462		
14.2. UN proper shipping name	TOXINS, EXTRACTI	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.		
14.3. Transport hazard	IMDG Class 6	IMDG Class 6.1		
class(es)	IMDG Subrisk	Not Applicable		
14.4. Packing group	Ш	П		
14.5. Environmental hazard	Not Applicable	Not Applicable		
	EMS Number	F-A, S-A		
14.6. Special precautions for user	Special provisions	210 274		
	Limited Quantities	500 g		

Inland waterways transport (ADN)

14.1. UN number	3462			
14.2. UN proper shipping name	TOXINS, EXTRACTED	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S.		
14.3. Transport hazard class(es)	6.1 Not Applicable			
14.4. Packing group	II			
14.5. Environmental hazard	Not Applicable			
	Classification code	Τ2		
	Special provisions	210; 274; 802		
14.6. Special precautions for user	Limited quantity	500 g		
	Equipment required	PP, EP		
	Fire cones number	2		

14.7. Maritime transport in bulk according to IMO instruments

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

Not Applicable

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

Product name Group

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type	
SECTION 15 Regulatory i	information	

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

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.

Phalloidin

Information according to 2012/18/EU (Seveso III):

Seveso Category H1

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Not Available
Canada - DSL	Not Available
Canada - NDSL	Not Available
China - IECSC	Not Available
Europe - EINEC / ELINCS / NLP	Not Available
Japan - ENCS	Not Available
Korea - KECI	Not Available
New Zealand - NZIoC	Not Available
Philippines - PICCS	Not Available
USA - TSCA	Not Available
Taiwan - TCSI	Not Available
Mexico - INSQ	Not Available
Vietnam - NCI	Not Available
Russia - FBEPH	Not Available
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	16/09/2022
Initial Date	16/09/2022

Full text Risk and Hazard codes

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. Scale of use, frequency of use and current or available engineering controls must be considered.

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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