



MATERIAL SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Classification according to Regulation (EC) No. 1272/2008 [CLP]

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

- Product Name Actin ExM Range
- Product Code PL-3 range
- Chemical Name n.a.
- REACH registration number No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

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

- Relevant identified uses: For research use only.
- Use Description Code SU22 - Public domain (administration, education, entertainment, services, craftsmen), PROC15 - Use as a laboratory reagent, PC21 - Laboratory chemicals, SU24 - Scientific research and development
- Uses advised against: Not for consumer use

Details of the supplier of the safety data sheet

Manufacturer/Supplier

Chrometra Scientific BVBA
Merelnest 3
3470 Kortenaken
Belgium
Tel. +32 472798021

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Physical hazards

Not Hazardous

Health Hazards

Acute oral toxicity	Category 2
Acute dermal toxicity	Category 2
Acute inhalation toxicity	Category 2

Environmental hazards

Not Hazardous

Additional information

No information available

Label Elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal Word

Danger

Hazard Statements

H300 - Fatal if swallowed
H310 - Fatal in contact with skin
H330 - Fatal if inhaled

Precautionary Statements

Prevention

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P262 - Do not get in eyes, on skin, or on clothing
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor/physician
P330 - Rinse mouth

Physical hazards

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

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards

Not applicable

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent	Classification according to Regulation (EC) No 1272/2008 [CLP]	Reach Number
Phalloidin Derivative	N.a.	95-100%	Acute Tox. 2 - H300 Acute Tox. 2 - H310 Acute Tox. 2 - H330	-

4 FIRST AID MEASURES

Description of first aid measures

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. Call a doctor or poison control centre

	immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a doctor or poison control centre immediately.
Notes to Physician	Treat symptomatically.

Most important symptoms and effects, both acute and delayed H300 - Fatal if swallowed H310 - Fatal in contact with skin H330 - Fatal if inhaled

Indication of any immediate medical attention and special treatment needed IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

5 FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable Extinguishing Media No information available.

Special hazards arising from the substance or mixture Not Known

Advice for fire-fighters In the event of fire, wear self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection equipment. See Section 8 for more detail.

Environmental precautions No special environmental precautions required. Avoid discharge into drains and waterways whenever possible

Methods and material for containment and cleaning up Soak up with inert absorbent material

Reference to other sections See section 8 for more information

7 HANDLING AND STORAGE

Precautions for safe handling Use personal protective equipment as required. Avoid dust formation.

Conditions for safe storage, including any incompatibilities Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Protect from direct sunlight.

Specific end use(s) For research use only

Storage conditions: Frozen (-5 to -30°C)

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation
Actin ExM	None	None	None
Chemical Name	Austria	Belgium (TWA)	Czech Republic
Actin ExM	None	None	None
Chemical Name	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)
Actin ExM	None	None	None
Chemical Name	Germany OEL (TWA)	Ireland (TWA)	Italy OEL (TWA)
Actin ExM	None	None	None
Chemical Name	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
Actin ExM	None	None	None
Chemical Name	Poland	Portugal	Spain OEL (TWA)

Actin ExM	None	None	None
Chemical Name	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
Actin ExM	None	None	None

Engineering measures Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal protection equipment

Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand Protection	Wear suitable gloves Glove material: Compatible chemical-resistant gloves.
Eye protection	Tight sealing safety goggles
Skin and body protection	Wear suitable protective clothing
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	No special environmental precautions required. Avoid discharge into drains and waterways whenever possible

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Solid or oil
 Appearance: Coloured liquid
 Odour: no data available
 Odour Threshold: no data available
 Boiling Point: no data available
 Melting Point: no data available
 Flash point: no data available
 Autoignition temperature: no data available
 Oxidising properties: no data available
 Water solubility: Miscible
 Viscosity: no data available
 PH Range: no data available

10 STABILITY AND REACTIVITY

Reactivity	None Known
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	Carbon Oxides, nitrogen oxides, Sulphur oxide
Conditions to Avoid	No information available
Incompatible Materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition	No information available

11 TOXICOLOGICAL INFORMATION

Information on acute toxicological effects

No data available

Principle Routes of Exposure, Potential health effects

Eyes	No information available
Skin	Toxic in contact with skin
Inhalation	Toxic by inhalation
Ingestion	Toxic if swallowed

Specific effects

Corrosivity	Data are conclusive but insufficient for classification
Sensitisation	Data are conclusive but insufficient for classification
Carcinogenicity	Data are conclusive but insufficient for classification
Mutagenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification

12 ECOLOGICAL INFORMATION

Ecotoxicity	No information available
Persistence/degradability	No information available
Bioaccumulative potential	No information available
PBT/vPvB assessment	No information available
Other adverse effects	No information available

13 SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

14 SECTION 14: TRANSPORT INFORMATION

IATA / ADR / DOT-US / IMDG Not classified as dangerous in the meaning of transport regulations.

UN Number	2811
UN proper shipping name	Toxic solid, organic, n.o.s. (phalloidin)
Transport hazard class(es)	6.1
Packing group	II
Environmental Hazards	Not applicable
Special precautions for user	Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

15 SECTION 15: REGULATORY INFORMATION

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

Substances of Very High Concern

None.

Substance subject to authorisation per REACH Annex XIV

None

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.

Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

None.

German Water hazard classes (Wassergefährdungsklassen)

No information available.

Chemical safety assessment

No Chemical safety assessment has been carried out.

16 SECTION 16: OTHER INFORMATION

Reason for revision	Update according to Commission Regulation (EU) No 830/2015
Revision number	3
Revision date	18-June-2022

References

ECHA	http://echa.europa.eu/
TOXNET	http://toxnet.nlm.nih.gov/
eChemPortal	http://www.echemportal.org/
LOLIdatabase	https://www.chemadvisor.com/loli-database

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute oral toxicity	Category 2	Calculation method
Acute dermal toxicity	Category 2	Calculation method
Acute inhalation toxicity	Category 2	Calculation method

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"