



SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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

1.1 Product identifier

Product name	ActiCHO™ P with Poloxamer-188, without Insulin, without L-Glutamine
Catalogue Number	SH31025.02
Product description	Not available.
Product type	Powder.
Other means of identification	Not available.

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

For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use.

1.3 Details of the supplier of the safety data sheet

Supplier	<p>Cytiva Austria Kremsplstr. 5 4061 Pasching AUSTRIA Phone: +43 7229 64865</p> <p>HyClone Laboratories 925 West 1800 South Logan, Utah 84321 Phone: (435) 792-8000</p> <p>Cytiva Singapore 1 Maritime Square #13-01 Harbourfront Centre Singapore 099253</p>	Hours of operation Mo. - Fr. 08.30 - 17.00
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Person who prepared the SDS: sds_author@cytiva.com

Switzerland	<p>Cytiva Austria Kremsplstr. 5 4061 Pasching AUSTRIA Phone: +43 7229 64865</p>
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1.4 Emergency telephone number

Call INFOTRAC 24 Hour number:
001-352-323-3500 (Call Collect).

National advisory body/Poison Centre

Switzerland	<p>Vergiftungsnotruf Tel: 145</p> <p>Aus dem Ausland oder bei technischen Problemen: +41 44 251 51 51</p> <p>https://www.toxinfo.ch/notruf-145</p>
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

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

Eye Irrit. 2, H319

☒ The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity 18.3 percent of the mixture consists of component(s) of unknown acute oral toxicity
81 percent of the mixture consists of component(s) of unknown acute dermal toxicity
92 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

Ingredients of unknown ecotoxicity Contains 47.7% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word ☒ No signal word.

Hazard statements ☒ No known significant effects or critical hazards.

Precautionary statements

General Not applicable.

Prevention ☒ Not applicable.

Response ☒ Not applicable.

Storage Not applicable.

Disposal Not applicable.

Supplemental label elements ☒ Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings Not applicable.

Tactile warning of danger Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture

L-serine	EC: 200-274-3 CAS: 56-45-1	<3.4	Aquatic Chronic 3, H412	-	[1]
L-valine	EC: 200-773-6 CAS: 72-18-4	<2.35	Acute Tox. 4, H302	ATE [Oral] = 2000 mg/kg	[1]
L-tryptophan	EC: 200-795-6 CAS: 73-22-3	<1.05	Eye Irrit. 2, H319	-	[1]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a physical, health or environmental hazard

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	Adverse symptoms may include the following: irritation redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	No specific data.
Ingestion	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use dry chemical powder.

Unsuitable extinguishing media Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture May form explosible dust-air mixture if dispersed.

Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	☑ No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill	☑ Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	☑ Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	☑ Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use.
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Industrial sector specific solutions	Not available.
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SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario (s).

8.1 Control parameters

Occupational exposure limits


 Succinic acid	SUVA (Switzerland, 1/2025) TWA 8 hours: 2 mg/m³. Form: Inhalable fraction. STEL 15 minutes: 5 mg/m³. Form: Inhalable fraction.
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Biological exposure indices

No exposure indices known.

Recommended monitoring procedures	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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DNELs/DMELs

Product/ingredient name	Result
 L-serine	DNEL - General population - Long term - Oral 37.5 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 130 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Dermal 375 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 529 mg/m³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Dermal 750 mg/kg bw/day <u>Effects:</u> Systemic
L-valine	DNEL - General population - Long term - Oral 7.9 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 27.3 mg/m³ <u>Effects:</u> Systemic DNEL - General population - Long term - Dermal 78.5 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 110.7 mg/m³ <u>Effects:</u> Systemic DNEL - Workers - Long term - Dermal 157 mg/kg bw/day <u>Effects:</u> Systemic
L-tryptophan	DNEL - General population - Long term - Oral 47 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 164 mg/m³ <u>Effects:</u> Systemic

DNEL - General population - Long term - Dermal

471 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Inhalation**

664 mg/m³

Effects: Systemic**DNEL - Workers - Long term - Dermal**

941 mg/kg bw/day

Effects: Systemic**PNECs**

Not available.

8.2 Exposure controls**Appropriate engineering controls**

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures**Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

☑ Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection**Hand protection**

☑ Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties**Appearance**

Physical state	Solid. [Powder.]
Colour	Light brown. to Orange.
Odour	Not available.
Odour threshold	Not available.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flammability	Not available.
Lower and upper explosion limit	Not applicable.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.

pH	3 to 4 [Conc. (% w/w): 2.2%]
Viscosity	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): Not available.
Solubility in water	Not available.
Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not available.
Relative density	Not available.
Relative vapour density	Not applicable.
Particle characteristics	
Median particle size	Not available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Burning time	Not available.
Burning rate	Not available.
Explosive properties	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidising materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
Oxidising properties	Not available.

9.2.2 Other safety characteristics

Evaporation rate	Not available.
	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product/ingredient name	Result
L-serine	Rat - Oral - LD50 14 g/kg
L-valine	Rat - Oral - LD50 2000 mg/kg
L-tryptophan	Rat - Oral - LD50 >16 g/kg <u>Toxic effects:</u> Eye - Ptosis Behavioral - Coma Changes in Chemistry or Temperature - Body temperature decrease

Conclusion/Summary [Product] Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)

HyClone™ ActiCHO™ P	79341.7	N/A	N/A	N/A	N/A
L-serine	14000	N/A	N/A	N/A	N/A
L-valine	2000	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] Not available.**Ingredient name**

L-serine
 L-valine
 L-tryptophan

Conclusion/Summary

May cause skin irritation.
 May cause skin irritation.
 May cause skin irritation.

Serious eye damage/eye irritation**Product/ingredient name**

L-tryptophan

Conclusion/Summary [Product] Not available.**Ingredient name**

L-serine
 L-valine
 L-tryptophan

Result**Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 100 mg

Conclusion/Summary

May cause eye irritation.
 May cause eye irritation.
 May cause eye irritation.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] Not available.**Respiratory or skin sensitization**

Not available.

Skin**Conclusion/Summary [Product]** Not available.**Ingredient name**

nickel sulphate
 tin dichloride

Conclusion/Summary

May produce an allergic reaction.
 May cause allergic reactions in certain individuals.

Respiratory**Conclusion/Summary [Product]** Not available.**Ingredient name**

nickel sulphate
 tin dichloride

Conclusion/Summary

May produce an allergic reaction. Causes damage to organs through prolonged or repeated exposure if inhaled.
 May cause allergic reactions in certain individuals.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] Not available.**Carcinogenicity**

Not available.

Conclusion/Summary [Product] Not available.**Reproductive toxicity**

Not available.

Conclusion/Summary [Product] Not available.**Ingredient name**

nickel sulphate

Conclusion/Summary

Presumed human reproductive toxicant

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
manganese sulphate	STOT RE 2, H373
nickel sulphate	STOT RE 1, H372

Aspiration hazard

Not available.

Information on likely routes of exposure	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
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Potential acute health effects

Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Ingestion	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Eye contact	<input checked="" type="checkbox"/> Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	No specific data.
Skin contact	No specific data.
Eye contact	<input checked="" type="checkbox"/> Adverse symptoms may include the following: irritation redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] Not available.

General	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name

L-serine

Result

Acute - EC50

Daphnia
83 mg/l [48 hours]

Acute - NOEC

Algae
1000 mg/l [72 hours]

L-valine

LC50

Fish
10000 mg/l [96 hours]

Conclusion/Summary [Product] Not available.

Ingredient name

L-serine

L-valine

L-tryptophan

Conclusion/Summary

Naturally occurring substance

Naturally occurring substance

Naturally occurring substance

12.2 Persistence and degradability

Product/ingredient name

L-valine

Result

82% [28 days]

Conclusion/Summary [Product] Not available.

Ingredient name

L-serine

L-valine

L-tryptophan

Conclusion/Summary

Not expected to bioaccumulate. Naturally occurring substance

Not expected to bioaccumulate. Naturally occurring substance

Not expected to bioaccumulate. Naturally occurring substance

Product/ingredient name

L-valine

Aquatic half-life

-

Photolysis

-

Biodegradability

Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
L-serine	-3.07	0.609	Low
L-valine	-2.26	0.846	Low
L-tryptophan	-1.06	1.37	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name

L-serine

L-valine

L-tryptophan

logK_{oc}

0.6

1.3

1.9

K_{oc}

3.97311

18.2108

83.031

Results of PMT and vPvM assessment

Product/ingredient name

L-serine

L-valine

L-tryptophan

PMT

No

No

No

P

N/A

N/A

N/A

M

Yes

Yes

Yes

T

No

No

No

vPvM

N/A

N/A

N/A

vP

N/A

N/A

N/A

vM

Yes

Yes

Yes

Mobility Not available.

Conclusion/Summary The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name

L-serine

L-valine

L-tryptophan

PBT

No

No

No

P

N/A

N/A

N/A

B

No

No

No

T

No

No

No

vPvB

No

No

No

vP

N/A

N/A

N/A

vB

No

No

No

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name

L-serine

L-valine

L-tryptophan

PBT

No

No

No

P

N/A

N/A

N/A

B

No

No

No

T

No

No

No

vPvB

No

No

No

vP

N/A

N/A

N/A

vB

No

No

No

Conclusion/Summary The product does not meet the criteria to be considered as a PBT or vPvB.
Regulation (EC) No. 1272/2008
[CLP]

12.6 Endocrine disrupting properties

Not applicable.

Conclusion/Summary [Product] The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste ☒ Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions ☒ This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	<input checked="" type="checkbox"/> Not regulated.	<input checked="" type="checkbox"/> Not regulated.	<input checked="" type="checkbox"/> Not regulated.	<input checked="" type="checkbox"/> Not regulated.
14.2 UN proper shipping name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14.3 Transport hazard class(es)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
hexaammonium heptamolybdate	≤0.1	65
Labelling	Not applicable.	

Other EU regulations

**Industrial emissions
(integrated pollution
prevention and control) - Air** Not listed

**Industrial emissions
(integrated pollution
prevention and control) -
Water** Not listed

Explosive precursors Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

VOC content Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.


Inventory list

United States	Not determined.
Canada inventory	Not determined.
China	Not determined.
Japan	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.



SECTION 16: Other information

 Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Eye Irrit. 2, H319		Calculation method
Full text of abbreviated H statements	 H302	Harmful if swallowed.
	H319	Causes serious eye irritation.
	H412	Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	 Acute Tox. 4	ACUTE TOXICITY - Category 4
	Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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