derypol

HIMOLOC ZW322

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 4/4/2024 Revision date: 4/4/2024 Supersedes version of: 4/24/2023 Version: 12.0

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

1.1. Product identifier Product form : Mixture : HIMOLOC ZW322 Trade name 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Use of the substance/mixture : Product for water treatments Product for paper and paperboard manufacturing 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet DERYPOL, S.A HQ: Manufacturing: C/Plató, n 6, Entlo, 5 C/Cal Gabatx, s/n 08520 Les Franqueses del Vallès (Spain) 08021 Barcelona (Spain) Tel. +34 93 238 9090 Tel. +34 93 8496188 regulatory@derypol.com 1.4. Emergency telephone number : +34 93 849 6188 Emergency number 9:00-13:00 h 15:00-17:00 h (GMT + 1)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : Spills will produce extremely slippery surfaces in case of contact with water.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Comments

: Amphoteric acrylamide copolymer in aqueous dispersion

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Beware of possible existing spills of product. See previously the Safety Data Sheet and act accordingly.
First-aid measures after inhalation	: In case of trouble go to the open air.
First-aid measures after skin contact	: Remove the maximum amount of product by using absorbent paper and then rinse with plenty of water. In case of persistent irritation get medical advise.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Consult a doctor.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: None expected.
Symptoms/effects after skin contact	None expected.
Symptoms/effects after eye contact	: It causes itching and redness.
Symptoms/effects after ingestion	: Gastrointestinal discomfort. Repeated ingestion of the product is considered highly unlikely route of exposure if working in adequate sanitary and hygiene conditions.
Chronic symptoms	: None known.

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

Treat symptomatically. Any ingredient in significant proportion according to the criteria laid down in Regulation 1272/2008 is mentioned in paragraph 3.2 of this Safety Data Sheet. Get medical attention urgently.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	: Water. water spray, powder, foam (carbon dioxide (CO2)). : None.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Not flammable. None known. Under fire conditions thermal decomposition may produce: HCl, NH3, nitrogen oxides (NOx), carbon oxides (COx) and sulfur oxides (SOx).
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions Protection during firefighting	 Stop leak if safe to do so. Fight fire with normal precautions from a reasonable distance. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures		

6.1.1. For non-emergency personnel

Emergency procedures

: Do not step on the spill and avoid contact with water. The affected area, in contact with water, will become extremely slippery.

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6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment. Keep away from people without protection. Slipping hazard if spilled load. Avoid contact with eyes and skin. Do not breathe vapors or spray mist. Personal protective equipment, see section 8.
Emergency procedures	: For small spills use inert absorbent materials and remove with a shovel; then flush the affected area with pressured water. For large spills contain them with absorbent material and pump out the product to adequate containers; then flush the affected area with pressured water.

6.2. Environmental precautions

Avoid release to the environment. Avoid the ground to be contaminated, natural water courses and wastewater drainage. If contamination occurs inform the corresponding authorities immediately.

6.3. Methods and material for containment	nt and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. For small spills use inert absorbent materials and remove with a shovel; then flush the affected area with pressured water. For large spills contain them with absorbent material and pump out the product to adequate containers; then flush the affected area with pressured water.

6.4. Reference to other sections

See Section 8 to have information related to most appropriate personal protection equipment. See Section 13 to have information related to waste management.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: We recommend handling the product in a well ventilated area. Ensure you have a safety shower and eye wash fountain available. Keep absorbent material as a precaution against spills. Use normal personal hygiene and housekeeping measures when handling any chemical product.	
Handling temperature	: 10 – 30 °C	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Keep in a covered place with the drum well closed and within the recommended temperature range. Avoid extreme temperatures on long storage periods, especially at low temperatures, the product may undergo an emulsion degradation process. If this occurs we recommend mixing the product and moving it to a warmer storage zone.	
Storage temperature	: -5 – 35 °C	
Heat and ignition sources	: Protect from sunlight. Direct sunlight may provoke slight product coloration and / or colored spots on its surface, which does not mean any degradation. Store in a well-ventilated place	

7.3. Specific end use(s)

For all the expected uses of the product the indications given above are considered appropriate.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Natural ventilation is adequate in open areas. Provide mechanical ventilation in confined spaces. Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses with side-shields

8.2.2.2. Skin protection

Skin and body protection:

Use a chemical resistant apron or full protective equipment depending on the handling level and contact risks with the product and its dissolutions

Hand protection:

Use latex gloves, or natural rubber gloves

Other skin protection

Materials for protective clothing:

Use your standard work clothes. In case of long contact with the product and risk of splash of its dissolutions use full waterproof suit

8.2.2.3. Respiratory protection

Respiratory protection:

Not necessary under normal conditions and provided good general ventilation

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid spills that contaminate the underground, surface water streams and sewer system. Avoid release to the environment.

Other information:

You should always have a safety shower and eyewash in the area where the product is handled. Wash your hands and anybody area that has resulted exposed to the product before drinking, eating, using the services and end of the work period. Be aware of your exposure to products used in your workplace and act responsibly to avoid contaminating other areas. Try to develop good health habits, check with your company responsible for help.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: White milky liquid.	
Appearance	: White milky liquid.	
Odour	: Salty odor.	

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Odour threshold	: Not available
Melting point	: ≈ -10 °C
Freezing point	: Not available
Boiling point	: ≈ 100 °C
Flammability	: Not applicable. Water-based product, free of organic solvents.
	Not applicable. Water-based product, free of organic solvents.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 200 °C Not applicable. Water-based product, free of organic solvents.
Auto-ignition temperature	: Not applicable. Water-based product, free of organic solvents.
Decomposition temperature	: > 150 °C
рН	: 2.5 – 4.5
Viscosity, kinematic	: Not available
Viscosity, dynamic	: <1500 cP
Solubility	: Water soluble. Product solubility limit depend on dissolution conditions (concentration, pH,
	temperature, preparation system - agitation).
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.2 g/cm ³
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product has no hazardous reactivity beyond that specified in paragraph 10.5. However there may be a risk of water contamination of the product during handling and use. Water or water-based products, will dissolve partially and imperfectly the product, and may cause it to be very difficult to use in the application (gel formation, clogged pipes and pumps). As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

10.2. Chemical stability

Product is stable. Some slightly separation may occur. It doesn't mean the product is damaged; you can easily recover it to its original state by agitation.

By evaporation cycles effect - some condensation can form gel particles on the surface of the product and these, in light contact, can acquire a yellowish tone.

10.3. Possibility of hazardous reactions

No risk of explosion or polymerization or inflammation on contact with air, even at high temperatures (<100 ° C) and in the presence of ignition sources.

10.4. Conditions to avoid

None for safety reasons. For keeping the original properties of the product follow the recommendations given in Section 7.

10.5. Incompatible materials

Strong bases may provoke ammonia vapours.

10.6. Hazardous decomposition products

None under normal conditions. Thermal decomposition products (in case of fire) are indicated in Section 5.

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SECTION 11: Toxicological informati	ion
11.1. Information on hazard classes as d	efined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified
HIMOLOC ZW322	
LD50 oral rat	15380 mg/kg (Results based on a similar product)
Skin corrosion/irritation Serious eye damage/irritation	 Rabbits (Draize test): Not irritant - Data for a very similar product. pH: 2.5 - 4.5 Not classified
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	 pH: 2.5 - 4.5 Not classified
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties Adverse health effects caused by endocrine disrupting properties	: No data available
11.2.2. Other information Potential adverse human health effects and symptoms Other information	 No symptoms expected if the product is properly handled, No effects whatsoever related to exposure to the product are known. Through our experience and according to the information available, the product is not harmful to health if handled correctly according to the recommendations given.
SECTION 12: Ecological information	
12.1. Toxicity	

Hazardous to the aquatic environment, short–term : (acute)	Not classified
Hazardous to the aquatic environment, long-term : (chronic)	Not classified
HIMOLOC ZW322	
LC50 - Fish [1]	1 – 10 mg/l (Danio rerio. Data for a representative polymer)
EC50 - Crustacea [1]	10 – 100 mg/l Data for a representative polymer.
EC50 72h - Algae [1]	Algal inhibition tests are not appropiate. The flocculating characteristics of the product

	the test.
12.2. Persistence and degradability	
HIMOLOC ZW322	
Persistence and degradability	Abiotic degradation: Hydrolysis > 70% (28 days, pH 6 - 8, OECD 111). Equivalent to rapid biodegradability according to Regulation (EC) No 1272/2008 Data for a representative polymer.

inerfere directly in the test medium preventing homogenous distribution which invalides

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12.3. Bioaccumulative potential				
HIMOLOC ZW322				
Bioaccumulative potential	This is a high molecular weight, for this reason it will not permeate the membrane cell. There will be no bio-accumulation.			
12.4. Mobility in soil				
HIMOLOC ZW322				
Ecology - soil	It may be easily removed by an abiotic process of adsorption.			
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Endocrine disrupting properties				
Adverse effects on the environment caused by : endocrine disrupting properties	No data available.			
12.7. Other adverse effects				
Other adverse effects : Additional information :	None to mention. In aqueous solution this product may be eliminated by flocculation and precipitation. It is			

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: If this product must be disposed as a waste the final user must do it accordingly with the European, national and local regulations. Use only authorised companies. Empty containers and residual product must not be washed out with water, this would provoke an inappropriate dissolution of the product and it would increase the amount of waste to dispose. Exhaust as much as possible the product and dispose the empty container taking into account Section 13.1. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Keep the same recommendations provided in Sections 7 and 8 of this MSDS. Refer to Section 2 of this Safety Data Sheet.

does not contain halogen organic compounds.

easily removed from the aqueous media in presence of suspended matter. This product

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

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14.3. Transport hazard class(es)			
ADR Transport hazard class(es) (ADR)	: Not applicable		
IMDG Transport hazard class(es) (IMDG)	: Not applicable		
IATA Transport hazard class(es) (IATA)	: Not applicable		
ADN Transport hazard class(es) (ADN)	: Not applicable		
RID Transport hazard class(es) (RID)	: Not applicable		
14.4. Packing group			
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable 		
14.5. Environmental hazards			
Other information	: No supplementary information available		
14.6. Special precautions for user			
Overland transport Not applicable			
Transport by sea Not applicable			
Air transport Not applicable			
Inland waterway transport Not applicable			
Rail transport Not applicable			
14.7. Maritime transport in bulk according to IMO instruments			
Not applicable			

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

The product should be considered a mixture. Given its classification is not necessary to perform a chemical safety assessment thereof.

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
	Supersedes	Modified		
	Revision date	Modified		
	Issue date	Modified		
12.2	Persistence and degradability	Modified		

Other information

The latest version of the MSDS of this product can be obtained through the link https://www.derypol.com/en/technical-documentation/.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.