

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Himoloc DR2500

#### 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                       |
| 08021 Barcelona (Spain) | 08520 Les Franqueses del Vallès (Spain) |
| Tel. +34 93 238 9090    | Tel. +34 93 8496188                     |
|                         | regulatory@derypol.com                  |

#### 1.4. Emergency telephone number

Emergency number : +34 93 849 6188  
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] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

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 : Spill area may be slippery.

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 is 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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : Cationic acrylamide copolymer in aqueous dispersion

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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 advice. |
| First-aid measures after eye contact  | : Take medical advice immediately. In case of eye contact, immediately rinse with clean water for 10-15 minutes.  |
| First-aid measures after ingestion    | : Do not induce vomiting. Call a poison center or a doctor if you feel unwell.  |

#### 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   | : water spray, powder, foam (carbon dioxide (CO <sub>2</sub> )). |
| Unsuitable extinguishing media | : None.  |

#### 5.2. Special hazards arising from the substance or mixture

|  |  |
|--|--|
| Fire hazard                                      | : Not flammable.   |
| Explosion hazard                                 | : None known.  |
| Hazardous decomposition products in case of fire | : Under fire conditions thermal decomposition may produce: HCl, NH <sub>3</sub> , nitrogen oxides (NO <sub>x</sub> ), carbon oxides (CO <sub>x</sub> ) and sulfur oxides (SO <sub>x</sub> ). |

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Stop leak if safe to do so.  |
| Firefighting instructions      | : Fight fire with normal precautions from a reasonable distance.       |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 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. |
|----------------------|--|

##### 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. |
|----------------------|--|

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

### 6.2. Environmental precautions

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 and cleaning up

Methods for cleaning up : 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 : 0 – 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 – 30 °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

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

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### 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.

#### 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.

##### 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.  |
| 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.<br>Not applicable. Water-based product, free of organic solvents. |

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|   |   |
|---|---|
| Explosive limits                                | : Not available   |
| Lower explosive limit (LEL)                     | : Not available   |
| Upper explosive limit (UEL)                     | : Not available   |
| Flash point                                     | : 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  |
| pH  | : 3 – 4.1   |
| Viscosity, kinematic                            | : Not available   |
| Viscosity, dynamic                              | : < 400 cP  |
| Solubility                                      | : Water soluble. Concentrations above 3% become very viscous. Product solubility limit depend on dissolution conditions (concentration, pH, temperature, preparation system - agitation). |
| Partition coefficient n-octanol/water (Log Kow) | : < 3   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50 °C                        | : Not available   |
| Density   | : 1.2 g/cm <sup>3</sup>   |
| Relative density                                | : Not available   |
| Relative vapour density at 20 °C                | : Not available   |
| Particle size                                   | : Not applicable  |
| Particle size distribution                      | : Not applicable  |
| Particle shape                                  | : Not applicable  |
| Particle aspect ratio                           | : Not applicable  |
| Particle aggregation state                      | : Not applicable  |
| Particle agglomeration state                    | : Not applicable  |
| Particle specific surface area                  | : Not applicable  |
| Particle dustiness                              | : Not applicable  |

### 9.2. Other information

#### 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

This product is stable. After long periods at rest we may observe a slight floatation that does not mean any degradation; the product can recover its original homogeneity easily by agitation.

### 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 information

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

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Himoloc DR2500                    |   |
|-----------------------------------|---|
| LD50 oral rat                     | > 7500 mg/kg estimated                  |
| Skin corrosion/irritation         | : Rabbit: No irritating.<br>pH: 3 – 4.1 |
| Serious eye damage/irritation     | : Rabbit: No irritating.<br>pH: 3 – 4.1 |
| Respiratory or skin sensitisation | : Not classified                        |
| Germ cell mutagenicity            | : Not classified                        |
| Carcinogenicity                   | : Not classified                        |
| Reproductive toxicity             | : Not classified                        |
| STOT-single exposure              | : Not classified                        |
| STOT-repeated exposure            | : Not classified                        |
| Aspiration hazard                 | : 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 | : No symptoms expected if the product is properly handled, No effects whatsoever related to exposure to the product are known.   |
| Other information                                   | : 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 DR2500                |   |
|-------------------------------|---|
| LC50 - Fish [1]               | 1 – 10 mg/l Data for a representative polymer.          |
| EC50 - Crustacea [1]          | 10 – 100 mg/l Data for a representative polymer.        |
| NOEC (additional information) | NOEC on earthworm: > 1000 mg/l (representative polymer) |

#### 12.2. Persistence and degradability

| Himoloc DR2500                  |  |
|---------------------------------|--|
| Biochemical oxygen demand (BOD) | BOD: 40 - 50% (Mod Sturm-Test: OECD 301B). |

#### 12.3. Bioaccumulative potential

| Himoloc DR2500                                  |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Kow) | < 3 |

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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

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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

: None to mention.

Additional information

: In aqueous solution this product may be eliminated by flocculation and precipitation. It is easily removed from the aqueous media in presence of suspended matter. This product does not contain halogen organic compounds.

## 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.

Additional information

: Keep the same recommendations provided in Sections 7 and 8 of this MSDS. Refer to Section 2 of this Safety Data Sheet.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

UN-No. (ADR)

: Not applicable

UN-No. (IMDG)

: Not applicable

UN-No. (IATA)

: Not applicable

UN-No. (ADN)

: Not applicable

UN-No. (RID)

: Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)

: Not applicable

Proper Shipping Name (IMDG)

: Not applicable

Proper Shipping Name (IATA)

: Not applicable

Proper Shipping Name (ADN)

: Not applicable

Proper Shipping Name (RID)

: Not applicable

### 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)

: Not applicable

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### 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) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

## 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list  $\geq 0,1\%$  / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants



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### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 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 |
|---------|--|----------|----------|
|         | Adverse effects on the environment caused by endocrine disrupting properties | Added    |          |
|         | Adverse health effects caused by endocrine disrupting properties             | Added    |          |
|         | Issue date   | Added    |          |
|         | Revision date  | Modified |          |
|         | SDS EU format  | Added    |          |
|         | Supersedes   | Modified |          |
| 16      | Other information  | Added    |          |

### Abbreviations and acronyms

|  |   |
|--|---|
|  | REACH EC 1907/2006 regulation. Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.<br>CLP: Classification, Labelling and Packaging. EC Regulation 1272/2008.<br>DNEL: Derived No Effect Level.<br>PNEC: Predicted No Effect Concentration.<br>PBT: Persistent, Bioaccumulative and Toxic.<br>vPvB: very Persistent and very Bioaccumulative. |
|--|---|

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 applicable for regions : DE;DK;ES;FI;FR;IT;NL;PL;PT;GB;RU;SE

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.