

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 4/5/2024 Revision date: 4/5/2024 Supersedes version of: 1/2/2023 Version: 8.0

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

#### 1.1. Product identifier

Product form : Mixture
Trade name : HYPOL DW211

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

#### 1.2.1. Relevant identified uses

Main use category : Product for water treatments

#### 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]

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]

EUH-statements : EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Other hazards which do not result in classification : None known. Full text of H- and EUH-statements: see section 16.

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

#### 3.2. Mixtures

Comments : Diallyldimethylammonium chloride homopolymer in aqueous solution

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| Name                                   | Product identifier  |     | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP] |
|--|---------------------|-----|---|
| Poly(dimethyldiallylammonium chloride) | CAS-No.: 26062-79-3 | <25 | Aquatic Chronic 3, H412   |

Full text of H- and EUH-statements: see section 16

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Do not perform any action that poses a risk if proper training is not held. Use the personal

protective equipment necessary in the circumstances prevailing in the place of intervention. 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 : Rinse the skin affected with plenty of water. Then wash it again with water and soap. In

case of irritation, if it persists, get medical advice.

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 : Not expected to be toxic. Do not induce vomiting. Rinse mouth. Get medical

advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : None expected.

Symptoms/effects after skin contact : Slight irritation of the repeatedly exposed area. Symptoms/effects after eye contact : May include: itching, pain, redness, tears.

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.

Symptoms/effects upon intravenous administration : Likely routes of exposure: skin and eye.

### 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. water spray, powder, foam (carbon dioxide (CO2)).

Unsuitable extinguishing media : None.

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

Hazardous decomposition products in case of fire : Some hazardous gases can be released, mainly: carbon oxides (Cox) and nitrogen oxides

(Nox). In case of combustion in a poor oxygen atmosphere some vapors of hydrochloric

acid and hydrocyanic acid can be formed.

### 5.3. Advice for firefighters

Precautionary measures fire : Do not attempt to take action without suitable protective equipment. Use self-contained

breathing apparatus and chemically protective clothing.

### **SECTION 6: Accidental release measures**

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

General measures : Avoid eyes and skin contact; use personal protective equipment.

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#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### 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

For containment

: 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.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 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

Additional hazards when processed

: Wear personal protective equipment. 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

: 5 – 35 °C

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a well-ventilated place. Avoid extreme temperatures (below "Minimum temperature" and above "Maximum temperature"). Keep in a covered place, with the drum well closed and within the "Recommended temperature range". Protect from sunlight. Protect from freezing.

Storage temperature

: 0 – 35 °C

### 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

#### 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

#### 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.

### Consumer exposure controls:

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. Take off contaminated clothing and wash before reuse.

#### Other information:

You should always have a safety shower and eyewash in the area where the product is handled.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Not available

Appearance : Colourless to yellowish transparent liquid.

Molecular mass : Low molecular weight.
Odour : Almost odourless.

Odour threshold : Perceptible only if you are very close to the product. When this happens take precautions as

indicated in section 8.2 and find the source of odor and correct the situation.

Explosive properties : Product is not explosive.

Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : The product is not easily ignited

Auto-ignition temperature : Not available
Decomposition temperature : > 150 °C

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pH : 4-7 Viscosity, kinematic : Not available Viscosity, dynamic : 500-2000 cP

Solubility : Dilutable in all proportions.

Partition coefficient n-octanol/water (Log Kow) Not available

Partition coefficient n-octanol/water (Log Pow) : < 0

Vapour pressure: Not availableVapour pressure at  $50^{\circ}$ C: Not availableDensity:  $\approx 1.1 \text{ g/cm}^3$ Relative density: Not availableRelative vapour density at  $20^{\circ}$ C: Not availableParticle characteristics: 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

This product does not present any dangerous reactivity if used, stored and handled in accordance with this MSDS recommendations.

#### 10.2. Chemical stability

Stable under normal handling and storage conditions.

## 10.3. Possibility of hazardous reactions

There is no risk of polymerization.

### 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 oxidizers may cause exothermic reactions. As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

### 10.6. Hazardous decomposition products

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

### **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) : The product is not expected to be toxic by inhalation

| Acute toxicity (innalation) | : The product is not expected to be toxic by inhalation.  |
|-----------------------------|---|
| HYPOL DW211                 |   |
| LD50 oral rat               | > 5000 mg/kg  |
| LD50 dermal rat             | > 5000 mg/kg  |
| Skin corrosion/irritation   | : Although the product is not classified as irritant we note that prolonged contact may cause mild irritation.  pH: 4 – 7 |

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Serious eye damage/irritation : Though it is not classified as irritant we warn you that it may cause a slight irritation.

pH: 4 – 7

Respiratory or skin sensitisation : This product is not expected to be sensitizing.

Germ cell mutagenicity : No information available on this specific product, however by analogy, the product is

considered to be: Not mutagenic.

Carcinogenicity No information available on this specific product, however by analogy, the product is

considered to be: Not carcinogenic.

No information available on this specific product, however by analogy, the product is Reproductive toxicity

considered to be: It is not toxic for reproduction

STOT-single exposure No data available. STOT-repeated exposure No data available.

: No aspiration hazard is expected in normal use. Aspiration hazard

### 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, Through our experience and according to the information available, the product is not harmful to health if handled correctly according to the recommendations given.

Other information

The most likely routes of exposure are skin and/or eye contact. Prolonged eye contact may cause temporary irritation. Flush eyes immediately. Follow the safety recommendations of paragraph 4,No additional hazard is expected owing to the blend of the constituent ingredients of this product.

### **SECTION 12: Ecological information**

## 12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

: No data available.

Additional information : If water is contaminated with less than 1% of product we do not expect an irreversible effect on the primary and/or secondary water treatment. With further dilution this effect will be clearly reduced. Then the treatment will need to be adjusted to the new water

characteristics. In case of spill follow the recommendation given in Section 13. AOX

information: Product contains no organic halogens.

| HYPOL DW211          |  |
|----------------------|--|
| LC50 - Fish [1]      | 10 – 100 mg/l (Danio reior, OECD 203)  |
| EC50 - Crustacea [1] | 10 – 100 mg/l (Daphnia magna)  |
| EC50 72h - Algae [1] | Algal inhibition tests are not appropiate. The flocculating characteristics of the product inerfere directly in the test medium preventing homogenous distribution which invalides the test. |

## 12.2. Persistence and degradability

| HYPOL DW211                   |   |
|-------------------------------|---|
| Persistence and degradability | This polymer is not expected to be rapidly biodegradable. This product does not hydrolyse. 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. |

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| Poly(dimethyldiallylammonium chloride) (26062-79-3) |                    |
|---|--------------------|
| Persistence and degradability                       | Rapidly degradable |

### 12.3. Bioaccumulative potential

| HYPOL DW211                                     |                     |
|---|---------------------|
| Bioconcentration factor (BCF REACH)             | ≈ 0                 |
| Partition coefficient n-octanol/water (Log Pow) | < 0                 |
| Bioaccumulative potential                       | not bioaccumulable. |

### 12.4. Mobility in soil

| HYPOL DW211  |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | ≈ 0   |
| 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.

## **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 may be rinsed out with water. Use washing water in the process where the product is applied as dilution water. Then the empty container will be disposed taking into account

Section 13.1.

Additional information : Keep the same recommendations provided in Sections 7 and 8 of this MSDS.

### **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

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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) : 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

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

No chemical safety assessment has been carried out

### **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    |          |
|                       | Reproductive toxicity - comment  | Modified |          |
|                       | Germ cell mutagenicity - comment   | Modified |          |
|                       | Carcinogenicity - comment  | Modified |          |
|                       | SDS EU format  | Added    |          |
|                       | Supersedes   | Modified |          |
|                       | Revision date  | Modified |          |
|                       | Issue date   | Modified |          |
| 3                     | Composition/information on ingredients                                       | Modified |          |
| 16                    | Other information  | Added    |          |

Other information

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

| Full text of H- and EUH-statements:   |  |
|---|--|
| Aquatic Chronic 3 Hazardous to the aquatic environment – Chronic Hazard, Category 3 |  |
| EUH210 Safety data sheet available on request.                                      |  |
| H412 Harmful to aquatic life with long lasting effects.                             |  |

Safety Data Sheet (SDS), EU

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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.