

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

1.1. Product identifier

Product form : Mixture
Trade name : HYGREEN GT203
Other means of identification : UFI: 6RTA-CMJV-JT2J-HT37

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Product for water treatments

Title	Use descriptors
Industrial and professional use in wastewater treatment (ES Ref.: HYGREEN GT203)	SU0, SU2a, SU2b, SU5, SU6b, SU23, PC20, PC21, PC37, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d, ERC8e

Full text of use descriptors: see section 16

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]

Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Carcinogenicity, Category 1B H350

Full text of H and EUH statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger
Contains : formaldehyde ...%

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H350 - May cause cancer.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective clothing, eye protection, face protection. P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ 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 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 polymer in aqueous solution of essentially vegetal origin

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acacia mearnsi ext. reaction products with ammonium chloride & formol	CAS-No.: 85029-52-3 EC-No.: 285-077-0 REACH-no: 01-2119983523-31	15 – 25	Eye Irrit. 2, H319
Formaldehyde substance with national workplace exposure limit(s) (ES)	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	0,1-0,5	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Formaldehyde	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	(0.2 \leq C < 100) Skin Sens. 1, H317 (5 \leq C < 100) STOT SE 3, H335 (5 \leq C < 25) Eye Irrit. 2, H319 (5 \leq C < 25) Skin Irrit. 2, H315 (25 \leq C < 100) Skin Corr. 1B, H314

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.

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First-aid measures after inhalation	: Go to the open air and cleanse thoroughly your nose and mouth with plenty of water. In case of persistent trouble get medical attention and provide this Material Safety Data Sheet to your physician.
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. In case of stained clothes take them out and wash them before using again.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water, also under eyelids, at least for 15 minutes. Get medical assistance. It is necessary having a safety shower in the work area.
First-aid measures after ingestion	: If accidentally is swallowed obtain immediately medical attention. Keep at rest. Never induce vomiting.

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

Symptoms/effects after inhalation	: Slight irritation of the respiratory tract.
Symptoms/effects after skin contact	: Slight irritation of the repeatedly exposed area.
Symptoms/effects after eye contact	: Causes serious eye damage.
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 spray, dry powder, carbon dioxide (CO ₂), foam.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not expected to be a fire/explosion hazard under normal conditions of use.
Explosion hazard	: None known.
Reactivity in case of fire	: This product does not present any dangerous reactivity if used, stored and handled in accordance with this MSDS recommendations.
Hazardous decomposition products in case of fire	: Under fire conditions thermal decomposition may produce: nitrogen oxides (NO _x) and carbon oxides (CO _x).

5.3. Advice for firefighters

Precautionary measures fire	: Keep away from sources of ignition.
Firefighting instructions	: Eliminate all ignition sources if safe to do so. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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	: Restrict access to area. Remove immediately contaminated clothes. Wash with plenty of water and soap the contaminated surfaces. Use safety goggles, PVC gloves and waterproof boots.

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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 | : | Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily 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

- | | | |
|-------------------------|---|---|
| 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. Keep container tightly closed. Use personal protective equipment. Provide sufficient air exchange and / or exhaust in the workplace. Avoid aerosol formation. In case of exposure to mist, or aerosol carry appropriate personal respiratory protection and protective suit. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Sources emergency eyewash and safety showers should be located in the immediate vicinity. |
| Handling temperature | : | 0 – 30 °C |
| Hygiene measures | : | Use normal personal hygiene and housekeeping measures when handling any chemical product. Do not eat, drink or smoke when using this product. |

7.2. Conditions for safe storage, including any incompatibilities

- | | | |
|-----------------------|---|---|
| Storage conditions | : | 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". Keep away from food, drink and animal feeding stuffs. Protect from sunlight. |
| Incompatible products | : | Strong acids. Oxidizing agent. Strong bases. As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers. |
| Storage temperature | : | 0 – 30 °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

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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

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Natural ventilation is adequate under normal handling conditions. Use local exhaust systems in case of mists and/or aerosols. You should always have a safety shower and eyewash in the area where the product is handled.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses		With side shields	EN 166
Face shield			

8.2.2.2. Skin protection

Skin and body protection:

Safety foot-wear

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Polyvinylchloride (PVC), Latex, Butyl rubber, Nitrile rubber (NBR), Vinyl, Natural rubber				EN ISO 374

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			
Device	Filter type	Condition	Standard
If necessary use face mask with a filter for organic vapours	Particle filter		EN 149

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Consumer exposure controls:

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. Take off contaminated clothing and wash before reuse. 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. 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	: brown.
Appearance	: Brownish liquid.
Odour	: Amine odour, fishy.
Odour threshold	: Not available
Melting point	: < 0 °C
Freezing point	: Not available
Boiling point	: < 100 °C
Flammability	: Not available
Explosive properties	: Product is not explosive.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Non flammable
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 1.4 – 2.5
Viscosity, kinematic	: Not available
Viscosity, dynamic	: < 25 cP
Solubility	: Dilutable in all proportions.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.02 – 1.1 g/cm³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle 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

No dangerous reaction known.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases. Avoid contact with galvanized surfaces and carbon steel.

10.6. Hazardous decomposition products

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) : No data available.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Formaldehyde (50-00-0)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.1 mg/l/4h

Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

LD50 oral rat	> 2000 mg/kg (OCDE 420)
LD50 dermal rat	> 2000 mg/kg (OCDE 402)
LC50 Inhalation - Rat (Dust/Mist)	> mg/l/4h

Skin corrosion/irritation : Not classified. (OECD 404 method)
pH: 1.4 – 2.5

Formaldehyde (50-00-0)

pH	2.2 – 2.8
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Serious eye damage/irritation : Causes serious eye irritation.
pH: 1.4 – 2.5

Formaldehyde (50-00-0)

pH	2.2 – 2.8
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Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : No data available.
Carcinogenicity : No data available.
Reproductive toxicity : No data available.

Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

NOAEL (animal/male, F0/P)	1000 mg/kg (OECD 422 method)
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STOT-single exposure : No data available.
STOT-repeated exposure : No data available.

Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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Aspiration hazard : Not classified

Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

Viscosity, kinematic	≈ 25.613 mm²/s
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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

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : No data available.

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Formaldehyde (50-00-0)

LC50 - Fish [1]	100 g/l <i>Lepomis macrochirus</i>
EC50 - Crustacea [1]	42 mg/l <i>Daphnia magna</i>
NOEC chronic crustacea	6.4 mg/l <i>daphnia magna</i>

Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

LC50 - Fish [1]	67.1 mg/l (OECD 203 method)
EC50 - Crustacea [1]	13.2 mg/l (OECD 202 method)
EC50 72h - Algae [1]	15 mg/l
EC50 72h - Algae [2]	≈ 15 mg/l Test organisms (species): <i>Skeletonema costatum</i>

12.2. Persistence and degradability

HYGREEN GT203

Persistence and degradability	Hardly biodegradable.
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Formaldehyde (50-00-0)

Persistence and degradability	Rapidly degradable
Biodegradation	92 % (100 mg/L, 14 d)

Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

Persistence and degradability	Rapidly degradable
Biodegradation	100 % (20 d, OECD 301 B)

12.3. Bioaccumulative potential

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Bioaccumulative potential	not bioaccumulable.
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Formaldehyde (50-00-0)

Bioconcentration factor (BCF REACH)	3
Partition coefficient n-octanol/water (Log Pow)	0.35

Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

Partition coefficient n-octanol/water (Log Pow)	0.3 (25 °C, OECD 117)
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Acacia mearnsi ext. reaction products with ammonium chloride & formol (85029-52-3)

Bioaccumulative potential	The product is not expected to bioaccumulate.
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12.4. Mobility in soil

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Ecology - soil	No information available.
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Formaldehyde (50-00-0)

Surface tension	0.01416 N/m (25 °C)
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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. Keep the same recommendations provided in Sections 7 and 8 of this MSDS. Dispose of at a licensed waste collection centre.

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

IMDG

Transport hazard class(es) (IMDG) : Not applicable

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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 REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

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.

POP Regulation (Persistent Organic Pollutants)

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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Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 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 subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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 additional information available

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
9.1	Viscosity, dynamic	Modified	
9.1	pH	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/>.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
Muta. 2	Germ cell mutagenicity, Category 2

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Full text of H- and EUH-statements:

Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of use descriptors

ERC2	Formulation into mixture
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
ERC8e	Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
PC20	Metal surface treatment products
PC21	Laboratory chemicals
PC37	Water treatment chemicals
PROC19	Manual activities involving hand contact
PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU0	Other: SU10 Formulation [mixing] of preparations and/or repackaging (excluding alloys)
SU23	Electricity, steam, gas water supply and sewage treatment
SU2a	Mining, (including offshore industries)
SU2b	Offshore industries
SU5	Manufacture of textiles, leather, fur
SU6b	Manufacture of pulp, paper and paper products

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

Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 1B	H350	Calculation method

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.

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Annex to the safety data sheet

Identified Uses	Es N°	Short title	Page
Industrial and professional use in drinking water and wastewater treatment	1		14

HYGREEN GT203

Annex to the safety data sheet: Exposure scenario

Product form: Mixture Physical state: Liquid

1. HYGREEN GT203 - Industrial, Formulation; Industrial and professional use in drinking water and wastewater treatment

1.1. Title section

Industrial and professional use in drinking water and wastewater treatment

ES Ref.: HYGREEN GT203
ES Type: Worker
Version: 1.0
Revision date: 1/18/2023

Author: Regulatory Department
Company ES code: Hygreen
Association ref code: HYGREEN GT203
Issue date: 1/18/2023

Environment		Use descriptors
HYGREEN GT203	Contributing scenario controlling environmental exposure	ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d, ERC8e

Worker		Use descriptors
HYGREEN GT203	Contributing scenario controlling worker exposure	PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, PC20, PC21, PC37

Processes, tasks, activities covered	Covers the use of the substance for the treatment of water at industrial facilities in closed or contained systems including incidental exposures during material transfers and equipment cleaning
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1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d, ERC8e)

ERC2	Formulation into mixture
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
ERC8e	Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

Product (article) characteristics	
Physical form of product	Liquid
Dustiness	Low potential to produce inhalable/respirable dust concentrations
Viscosity, dynamic	< 10 cP

Technical and organisational conditions and measures	
Technical measures	On-site wastewater treatment prior to discharge to sewer or public waterway. Gaseous emissions purification by means of a scrubber tower (good practice). The waste is recycled or managed in accordance with the legislation
Prevent environmental discharge consistent with regulatory requirements. Do not apply industrial sludge to natural soils	

HYGREEN GT203

Annex to the safety data sheet: Exposure scenario

Product form: Mixture Physical state: Liquid

Conditions and measures related to treatment of waste (including article waste)

Deposition methods	Dispose your empty containers with residual product in accordance with the indications of Section 13.1.
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1.2.2. Control of worker exposure: Contributing scenario controlling worker exposure (PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, PC20, PC21, PC37)

PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC19	Manual activities involving hand contact
PC20	Metal surface treatment products
PC21	Laboratory chemicals
PC37	Water treatment chemicals

Product (article) characteristics

Physical form of product	Liquid
Dustiness	Low potential to produce inhalable/respirable dust concentrations
Viscosity, dynamic	< 10 cP

Amount used (or contained in articles), frequency and duration of use/exposure

Variable between ml (sampling) and cubic meters (transfers).	
Covers daily exposures up to 8 hours	≤ 5 days/week

Technical and organisational conditions and measures

Technical measures	Work equipment must be in good working condition and must be properly maintained. . Clean up spills immediately. Order and cleanliness must be maintained in the workplace. The use of closed/automatic systems for handling the product is recommended, as well as coverage of open containers (e.g. by means of screens). Filling of containers with automatic dosing systems is recommended. It is recommended to clean the equipment and lines before disconnection and/or maintenance
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HYGREEN GT203

Annex to the safety data sheet: Exposure scenario

Product form: Mixture Physical state: Liquid

Technical and organisational conditions and measures

Organisational measures

Workers must be trained to (a) not perform unprotected work, (b) know the hazards of the product, (c) comply with the safety procedures provided by the operator of the user facility. The Facility Owner must ensure that the required PPE is available and used in accordance with the instructions for its use and established work procedures. Regularly monitor exposure levels, conditions of use and effective implementation of risk management measures (RMMs). If concentrations exceed the limits, RMMs and operating conditions shall be immediately reviewed in order to reduce exposure. Discharge into the environment must be avoided. Clean up spills immediately

Conditions and measures related to personal protection, hygiene and health evaluation

Skin and body protection

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

General protective and hygienic measures

Always wash your hands immediately after handling this product, and once again before leaving the workplace

Wear respiratory protection when its use is identified for certain contributing scenarios.

Full face piece respirator. Respiratory protective device with a particle filter

Hand protection

Wear suitable gloves tested to EN374

Eye protection

Safety spectacles with side shields

Other conditions affecting workers exposure

Formulation [mixing] of preparations and/or re-packaging

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d, ERC8e)

No information available

1.3.2. Worker exposure Contributing scenario controlling worker exposure (PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, PC20, PC21, PC37)

No information available

1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

1.4.1. Environment

No data available

1.4.2. Health

No data available