

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 19/08/2024 Revision date: 09/08/2025 Supersedes version of: 09/08/2025 Version: 4.1

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : caswell copy chrome electroyte UFI : RRV0-20CA-700G-CAN8

Type of product : Solution
Product group : End product

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

#### Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Electroplating agents
Function or use category : Electroplating agents

**Uses advised against** 

Restrictions on use : Consumer uses: Private households (= general public = consumers)

#### 1.3. Details of the supplier of the safety data sheet

Verzinkshop Installatieweg 25 8251KP Dronten Netherlands T +31 6 28090022 info@verzinkshop.nl

#### 1.4. Emergency telephone number

| Country/Area | Organisation/Company                                     | Address                                  | Emergency number   | Comment |
|--------------|--|--|--|---------|
| Ireland      | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Respiratory sensitisation, Category 1

Skin sensitisation, Category 1

H317

Germ cell mutagenicity, Category 2

Carcinogenicity, Category 1B

Reproductive toxicity, Category 1B

Hazardous to the aquatic environment – Acute Hazard,

Category 1

H4304

Category 1

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H410

Category 1

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

#### Adverse physicochemical, human health and environmental effects

May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects.

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### 2.2. Label elements

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

Hazard pictograms (CLP)





GHS08

GHS09

Signal word (CLP) : Danger

Contains : cobalt dichloride; boric acid; cobalt sulfate

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P261 - Avoid breathing vapours.

P280 - Wear protective clothing, eye protection, face protection.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 - IF exposed or concerned: Get medical advice/attention. P321 - Specific treatment (see supplemental first aid instruction on this label).

### 2.3. Other hazards

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

| Component   |   |  |
|---|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | cobalt dichloride (7646-79-9), boric acid (10043-35-3), cobalt sulfate (10124-43-3) |  |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | cobalt dichloride (7646-79-9), boric acid (10043-35-3), cobalt sulfate (10124-43-3) |  |

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 %

| Component   |   |
|---|---|
| Substance(s) not 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 | cobalt sulfate (10124-43-3), cobalt dichloride (7646-79-9), boric acid (10043-35-3) |

09/08/2025 (Revision date) IE - en 2/13

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

| Name  | Product identifier   | %       | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]   |
|---|--|---------|---|
| cobalt sulfate substance listed on REACH Candidate List (Cobalt(II) sulphate) Percentage by Weight of the metallic element: 6.84% | CAS-No.: 10124-43-3<br>EC-No.: 233-334-2<br>EC Index-No.: 027-005-00-0 | 10 – 20 | Carc. 1B, H350i Muta. 2, H341 Repr. 1B, H360F Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| cobalt dichloride substance listed on REACH Candidate List Percentage by Weight of the metallic element: 2.72%                    | CAS-No.: 7646-79-9<br>EC-No.: 231-589-4<br>EC Index-No.: 027-004-00-5  | 5 – 7   | Carc. 1B, H350i Muta. 2, H341 Repr. 1B, H360F Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| boric acid<br>substance listed on REACH Candidate List  | CAS-No.: 10043-35-3<br>EC-No.: 233-139-2<br>EC Index-No.: 005-007-00-2 | < 2     | Repr. 1B, H360FD  |

| Specific concentration limits: |  |                                   |  |  |
|--------------------------------|--|-----------------------------------|--|--|
| Name                           | Product identifier   | Specific concentration limits (%) |  |  |
| cobalt sulfate                 | CAS-No.: 10124-43-3<br>EC-No.: 233-334-2<br>EC Index-No.: 027-005-00-0 | (0.01 ≤ C ≤ 100) Carc. 1B; H350i  |  |  |
| cobalt dichloride              | CAS-No.: 7646-79-9<br>EC-No.: 231-589-4<br>EC Index-No.: 027-004-00-5  | (0.01 ≤ C ≤ 100) Carc. 1B; H350i  |  |  |

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 : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

Personal Protection in First Aid and Measures : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

09/08/2025 (Revision date) IE - en 3/13

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Symptoms/effects after skin contact : May cause an allergic skin reaction. Symptoms/effects after eye contact : None under normal conditions. Symptoms/effects after ingestion : None under normal conditions.

Chronic symptoms : May damage fertility or the unborn child.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Avoid

breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

## 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry

into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

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

#### 6.4. Reference to other sections

For further information refer to section 13.

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

- Not expected to present a significant hazard under anticipated conditions of normal use.
- Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Hygiene measures

Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up.

Packaging materials : Store always product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

## Personal protective equipment symbol(s):







## Eye and face protection

#### Eye protection:

Safety glasses

## Skin protection

# Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

#### **Respiratory protection**

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

09/08/2025 (Revision date) IE - en 5/13

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **Environmental exposure controls**

#### Environmental exposure controls:

Avoid release to the environment.

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

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid : Purple. Colour Appearance : Liquid. Odour · odourless Odour threshold : Not available Melting point : Not applicable Freezing point : Not available Boiling point : Not available Flammability : Non flammable. Lower explosion limit : Not available Upper explosion limit : Not available Flash point : Not available Auto-ignition temperature : Not available Decomposition temperature : Not available : 4-5 : 100 % pH solution concentration

Viscosity, kinematic Solubility : In water, material soluble.

: Not available

Partition coefficient n-octanol/water (Log Kow) Not available : Not available Vapour pressure Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met).

pH: 4 - 5

pH 5.5 – 5.9

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 4 – 5

cobalt sulfate (10124-43-3)

pH 5.5 – 5.9

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

cobalt sulfate (10124-43-3)

Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

 $\label{thm:long-term} \mbox{Hazardous to the aquatic environment, long-term}$ 

(chronic)

: Very toxic to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

| caswell copy chrome electroyte                        |                        |  |
|---|------------------------|--|
| Persistence and degradability                         | Not rapidly degradable |  |
| cobalt dichloride (7646-79-9)                         |                        |  |
| Persistence and degradability  Not rapidly degradable |                        |  |
| boric acid (10043-35-3)                               |                        |  |
| Persistence and degradability Not rapidly degradable  |                        |  |
| cobalt sulfate (10124-43-3)                           |                        |  |
| Persistence and degradability  Not rapidly degradable |                        |  |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| Component   |   |
|---|---|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | cobalt dichloride (7646-79-9), boric acid (10043-35-3), cobalt sulfate (10124-43-3) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | cobalt dichloride (7646-79-9), boric acid (10043-35-3), cobalt sulfate (10124-43-3) |

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

HP Code

- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : Disposal must be done according to official regulations.
- : Do not re-use empty containers.
- : HP11 "Mutagenic:" waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

# **SECTION 14: Transport information**

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

| ADR IMDG                    |                               | IATA                       | ADN                         | RID                         |  |
|-----------------------------|-------------------------------|----------------------------|-----------------------------|-----------------------------|--|
| 14.1. UN number or ID n     | 14.1. UN number or ID number  |                            |                             |                             |  |
| UN 3082                     | UN 3082                       | UN 3082                    | UN 3082                     | UN 3082                     |  |
| 14.2. UN proper shipping    | 14.2. UN proper shipping name |                            |                             |                             |  |
| ENVIRONMENTALLY             | ENVIRONMENTALLY               | Environmentally hazardous  | ENVIRONMENTALLY             | ENVIRONMENTALLY             |  |
| HAZARDOUS                   | HAZARDOUS                     | substance, liquid, n.o.s.  | HAZARDOUS                   | HAZARDOUS                   |  |
| SUBSTANCE, LIQUID,          | SUBSTANCE, LIQUID,            | (cobalt dichloride ; boric | SUBSTANCE, LIQUID,          | SUBSTANCE, LIQUID,          |  |
| N.O.S. (cobalt dichloride ; | N.O.S. (cobalt dichloride ;   | acid)                      | N.O.S. (cobalt dichloride ; | N.O.S. (cobalt dichloride ; |  |
| boric acid)                 | boric acid)                   |                            | boric acid)                 | boric acid)                 |  |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR  | IMDG  | IATA   | ADN   | RID   |  |
|--|---|--|---|---|--|
| Transport document descr   | Transport document description  |  |   |   |  |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dichloride; boric acid), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dichloride; boric acid), 9, III, MARINE POLLUTANT | UN 3082 Environmentally<br>hazardous substance,<br>liquid, n.o.s. (cobalt<br>dichloride; boric acid), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dichloride; boric acid), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dichloride; boric acid), 9, III |  |
| 14.3. Transport hazard of  | class(es)   |  |   |   |  |
| 9  | 9   | 9  | 9   | 9   |  |
| **************************************   | **************************************  | **************************************   | **************************************  | **************************************  |  |
| 14.4. Packing group  |   |  |   |   |  |
| III  | III   | III  | III   | III   |  |
| 14.5. Environmental hazards  |   |  |   |   |  |
| Dangerous for the environment: Yes   | Dangerous for the<br>environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-F      | Dangerous for the environment: Yes   | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  |  |
| No supplementary information available   |   |  |   |   |  |

# 14.6. Special precautions for user

# Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601, 650

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code (ADR)

#### Transport by sea

Special provisions (IMDG) : 274, 335, 375, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001

09/08/2025 (Revision date) IE - en 9/13

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

#### **Inland waterway transport**

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601, 650

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

#### Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601, 650

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

# 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

### **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)

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

#### **REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Cobalt dichloride (EC 231-589-4, CAS 7646-79-9), Boric acid (EC 233-139-2, CAS 10043-35-3), Cobalt(II) sulphate (EC 233-334-2, CAS 10124-43-3)

#### **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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### **Explosives Precursors Regulation (EU 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 (EC 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)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| ACGIH                       | American Conference of Government Industrial Hygienists   |  |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BCF                         | Bioconcentration factor   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| CAS-No.                     | Chemical Abstract Service number  |  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |  |
| COD                         | Chemical oxygen demand (COD)  |  |
| CSA                         | Chemical safety assessment  |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC-No.                      | European Community number   |  |
| EC50                        | Median effective concentration  |  |
| ED                          | Endocrine disruptor   |  |
| EN                          | European Standard   |  |
| EWC                         | European waste catalogue  |  |
| IARC                        | International Agency for Research on Cancer   |  |
| IATA                        | International Air Transport Association   |  |
| IMDG                        | International Maritime Dangerous Goods  |  |

09/08/2025 (Revision date) IE - en 11/13

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| LC50                        | Median lethal concentration  |  |
| LD50                        | Median lethal dose   |  |
| LOAEL                       | Lowest Observed Adverse Effect Level   |  |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |  |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |  |
| MAK                         | maximum workplace concentration  |  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |  |
| NOAEL                       | No-Observed Adverse Effect Level   |  |
| NOEC                        | No-Observed Effect Concentration   |  |
| N.O.S.                      | Not Otherwise Specified  |  |
| OECD                        | Organisation for Economic Co-operation and Development                       |  |
| OEL                         | Occupational Exposure Limit  |  |
| OSHA                        | Occupational Safety & Health Administration                                  |  |
| PBT                         | Persistent Bioaccumulative Toxic   |  |
| PNEC                        | Predicted No-Effect Concentration  |  |
| PPE                         | Personal protection equipment  |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |
| SDS                         | Safety Data Sheet  |  |
| STP                         | Sewage treatment plant   |  |
| TF                          | Technical function   |  |
| ThOD                        | Theoretical oxygen demand (ThOD)   |  |
| TLM                         | Median Tolerance Limit   |  |
| TWA                         | Time Weighted Average  |  |
| VOC                         | Volatile Organic Compounds   |  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |
| UFI                         | Unique Formula Identifier  |  |

| Full text of H- and EUH-statements: |  |  |
|-------------------------------------|--|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4  |  |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1            |  |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1          |  |
| Carc. 1B                            | Carcinogenicity (inhalation) Category 1B                                   |  |
| Muta. 2                             | Germ cell mutagenicity, Category 2   |  |
| Repr. 1B                            | Reproductive toxicity, Category 1B   |  |
| Resp. Sens. 1                       | Respiratory sensitisation, Category 1                                      |  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |  |
| H302                                | Harmful if swallowed.  |  |
| H317                                | May cause an allergic skin reaction.                                       |  |
| H334                                | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |  |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| H341                                | Suspected of causing genetic defects.                 |
| H350                                | May cause cancer.                                     |
| H350i                               | May cause cancer by inhalation.                       |
| H360                                | May damage fertility or the unborn child.             |
| H360F                               | May damage fertility.                                 |
| H360FD                              | May damage fertility. May damage the unborn child.    |
| H400                                | Very toxic to aquatic life.                           |
| H410                                | Very toxic to aquatic life with long lasting effects. |

The classification complies with

: ATP 12

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.