



## Safety Data Sheet V9202SS

Version number: 15.0

Revision: 2026-02-27

### SECTION 1: Identification

#### 1.1 Product identifier

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

Relevant identified uses components of water analysis test kits

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

AquaPhoenix Scientific, Inc.  
860 Gitts Run Road  
Hanover PA 17331  
United States

Telephone: (866) 632-1291  
e-mail: [info@aquaphoenixsci.com](mailto:info@aquaphoenixsci.com)  
Website: <https://www.aquaphoenixsci.com/>

#### 1.4 Emergency telephone number

Emergency information service ChemTel Inc.: 1-800-255-3924, +01-813-248-0585

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

| Hazard class                                        | Category | Hazard class and category | Hazard statement |
|-----------------------------------------------------|----------|---------------------------|------------------|
| acute toxicity (oral)                               | 3        | Acute Tox. 3              | H301             |
| acute toxicity (inhal.)                             | 4        | Acute Tox. 4              | H332             |
| hazardous to the aquatic environment - acute hazard | 2        | Aquatic Acute 2           | H401             |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

- Signal word danger

- Pictograms

GHS06



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### - Hazard statements

H301 Toxic if swallowed.  
H332 Harmful if inhaled.  
H401 Toxic to aquatic life.

### - Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or with adequate ventilation.  
P273 Avoid release to the environment.  
P301+P316 IF SWALLOWED: Get emergency medical help immediately.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P317 Get medical help.  
P321 Specific treatment (see on this label).  
P330 Rinse mouth.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling Barium Chloride Dihydrate

## 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

| Name of substance         | Identifier           | Wt% | Classification acc. to GHS                                           | Pictograms                                                                            |
|---------------------------|----------------------|-----|----------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Barium Chloride Dihydrate | CAS No<br>10326-27-9 | 100 | Acute Tox. 3 / H301<br>Acute Tox. 4 / H332<br>Aquatic Acute 2 / H401 |  |

### Remarks

For full text of abbreviations: see SECTION 16

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

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If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

### Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

Hydrogen chloride (HCl)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

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Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

Wear impact- and splash-resistant eyewear.

##### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

##### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

##### Managing of associated risks

##### - Explosive atmospheres

Removal of dust deposits.

##### Control of the effects

##### Protect against external exposure, such as

heat, high temperatures, light, UV-radiation/sunlight

##### - Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

##### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) |                                              |        |            |           |             |            |              |                 |                   |                 |                   |
|----------------------------------------------------------------|----------------------------------------------|--------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|-----------------|-------------------|
| Country                                                        | Name of agent                                | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation        | Source            |
| US                                                             | particulate not otherwise regulated          |        | REL        |           |             |            |              |                 |                   | appx-D          | NIOSH REL         |
| US                                                             | particulates not otherwise classified (PNOC) |        | PEL        |           | 15          |            |              |                 |                   | dust            | 29 CFR 1910.10 00 |
| US                                                             | particulates not otherwise classified (PNOC) |        | PEL        | 1,765     |             |            |              |                 |                   | partml, dust    | 29 CFR 1910.10 00 |
| US                                                             | particulates not otherwise classified (PNOC) |        | PEL        | 529.5     |             |            |              |                 |                   | partml, r, dust | 29 CFR 1910.10 00 |
| US                                                             | particulates not otherwise classified (PNOC) |        | PEL        |           | 5           |            |              |                 |                   | r               | 29 CFR 1910.10 00 |

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### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent                        | CAS No     | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation                  | Source           |
|---------|--------------------------------------|------------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|---------------------------|------------------|
| US      | Particulates not otherwise regulated |            | PEL (CA)   |           | 10                       |            |                           |                 |                                | dust                      | Cal/OSH A PEL    |
| US      | Particulates not otherwise regulated |            | PEL (CA)   |           | 5                        |            |                           |                 |                                | r                         | Cal/OSH A PEL    |
| US      | barium, soluble compounds            | 10326-27-9 | PEL (CA)   |           | 0.5                      |            |                           |                 |                                | Ba                        | Cal/OSH A PEL    |
| US      | barium, soluble compounds            | 10326-27-9 | PEL        |           | 0.5                      |            |                           |                 |                                | Ba                        | 29 CFR 1910.1000 |
| US      | barium, soluble compounds            | 10326-27-9 | REL        |           | 0.5 (10 h)               |            |                           |                 |                                | ex-BaSO <sub>4</sub> , Ba | NIOSH REL        |
| US      | barium chloride                      | 10361-37-2 | REL        |           | 0.5 (10 h)               |            |                           |                 |                                | Ba                        | NIOSH REL        |

#### Notation

|                      |                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| appx-D               | see Appendix D - Substances with No Established RELs                                                                                                                     |
| Ba                   | calculated as Ba (barium)                                                                                                                                                |
| Ceiling-C            | ceiling value is a limit value above which exposure should not occur                                                                                                     |
| dust                 | as dust                                                                                                                                                                  |
| ex-BaSO <sub>4</sub> | except barium sulphate                                                                                                                                                   |
| part/ml              | particles/ml                                                                                                                                                             |
| r                    | respirable fraction                                                                                                                                                      |
| STEL                 | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)                   |
| TWA                  | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) |

### Relevant DNELs of components

| Name of substance         | CAS No     | Endpoint | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
|---------------------------|------------|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Barium Chloride Dihydrate | 10326-27-9 | DNEL     | 8.8 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Barium Chloride Dihydrate | 10326-27-9 | DNEL     | 43.2 mg/kg bw/day     | human, dermal                      | worker (industry) | chronic - systemic effects |

### Relevant PNECs of components

| Name of substance         | CAS No     | Endpoint | Threshold level | Organism          | Environmental compartment    | Exposure time                |
|---------------------------|------------|----------|-----------------|-------------------|------------------------------|------------------------------|
| Barium Chloride Dihydrate | 10326-27-9 | PNEC     | 174 µg/l        | aquatic organisms | freshwater                   | short-term (single instance) |
| Barium Chloride Dihydrate | 10326-27-9 | PNEC     | 94.3 mg/l       | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Barium Chloride Dihydrate | 10326-27-9 | PNEC     | 908 mg/kg       | aquatic organisms | freshwater sediment          | short-term (single instance) |

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| Relevant PNECs of components |            |          |                 |                       |                           |                              |
|------------------------------|------------|----------|-----------------|-----------------------|---------------------------|------------------------------|
| Name of substance            | CAS No     | Endpoint | Threshold level | Organism              | Environmental compartment | Exposure time                |
| Barium Chloride Dihydrate    | 10326-27-9 | PNEC     | 314.9 mg/kg     | terrestrial organisms | soil                      | short-term (single instance) |

## 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

In the case of wanting to use the gloves again, clean them before taking off and air them well.

- Other protection measures

Wash hands thoroughly after handling.

Respiratory protection

Particulate filter device (EN 143).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Product description:

|                                                          |                      |
|----------------------------------------------------------|----------------------|
| Physical state                                           | solid                |
| Color                                                    | white                |
| Odor                                                     | odorless             |
| Melting point/freezing point                             | 962 °C at 1,003 hPa  |
| Boiling point or initial boiling point and boiling range | 1,560 °C             |
| Evaporation rate                                         | not determined       |
| Flammability                                             | non-combustible      |
| Lower and upper explosion limit                          | not relevant (solid) |
| Flash point                                              | not applicable       |
| Auto-ignition temperature                                | not determined       |
| Decomposition temperature                                | not relevant         |

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|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| pH (value)          | 5 – 8 (in aqueous solution: 5 % ( <sup>w</sup> / <sub>w</sub> ), 20 °C) |
| Kinematic viscosity | not relevant                                                            |

### Solubility(ies)

|                  |                            |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|

### Partition coefficient

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---------------------------------------------------|-----------------------------------|

|                |                |
|----------------|----------------|
| Vapor pressure | not determined |
|----------------|----------------|

### Density and/or relative density

|                         |                      |
|-------------------------|----------------------|
| Density                 | not determined       |
| Relative vapour density | not relevant (solid) |
| Relative density        | 3.86 (water = 1)     |

|                          |                   |
|--------------------------|-------------------|
| Particle characteristics | no data available |
|--------------------------|-------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

#### Acute toxicity

Toxic if swallowed. Harmful if inhaled.

#### - Acute toxicity estimate (ATE)

Oral 100 mg/kg  
Inhalation: dust/mist 1.5 mg/l/4h

#### Acute toxicity estimate (ATE) of components

| Name of substance         | CAS No     | Exposure route        | ATE         |
|---------------------------|------------|-----------------------|-------------|
| Barium Chloride Dihydrate | 10326-27-9 | oral                  | 100 mg/kg   |
| Barium Chloride Dihydrate | 10326-27-9 | inhalation: dust/mist | 1.5 mg/l/4h |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life.

#### Aquatic toxicity (acute) of components

| Name of substance         | CAS No     | Endpoint | Value      | Species               | Exposure time |
|---------------------------|------------|----------|------------|-----------------------|---------------|
| Barium Chloride Dihydrate | 10326-27-9 | LC50     | >3.5 mg/l  | fish                  | 96 h          |
| Barium Chloride Dihydrate | 10326-27-9 | EC50     | 25.78 mg/l | aquatic invertebrates | 48 h          |

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### Aquatic toxicity (acute) of components

| Name of substance         | CAS No     | Endpoint | Value      | Species | Exposure time |
|---------------------------|------------|----------|------------|---------|---------------|
| Barium Chloride Dihydrate | 10326-27-9 | ErC50    | >1.15 mg/l | algae   | 72 h          |

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Please consider the relevant national or regional provisions.

### SECTION 14: Transport information

#### 14.1 UN number

|           |         |
|-----------|---------|
| DOT       | UN 1564 |
| IMDG-Code | UN 1564 |
| ICAO-TI   | UN 1564 |

#### 14.2 UN proper shipping name

|                                        |                           |
|----------------------------------------|---------------------------|
| DOT                                    | Barium compounds, n.o.s.  |
| IMDG-Code                              | BARIUM COMPOUND, N.O.S.   |
| ICAO-TI                                | Barium compound, n.o.s.   |
| Technical name (hazardous ingredients) | Barium Chloride Dihydrate |

#### 14.3 Transport hazard class(es)

|           |     |
|-----------|-----|
| DOT       | 6.1 |
| IMDG-Code | 6.1 |
| ICAO-TI   | 6.1 |

#### 14.4 Packing group

|           |     |
|-----------|-----|
| DOT       | III |
| IMDG-Code | III |

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ICAO-TI

III

### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Other relevant information

Shipping container markings and labels, received from AquaPhoenix, may vary from the above information. Products that are regulated for transport will be packaged by AquaPhoenix as Dangerous Goods in Excepted Quantities according to IATA, US DOT, and IMDG regulations. AquaPhoenix may also elect to ship certain products as UN 3316 Chemical Kit, Hazard Class 9, Packing Group II or III. In case of reshipment, it is the responsibility of the shipper to determine appropriate labels and markings in accordance with applicable transportation regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

##### **Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information**

Particulars in the shipper's declaration

UN1564, Barium compounds, n.o.s., (Barium Chloride Dihydrate, mixture), 6.1, III

Danger label(s)

6.1



Special provisions (SP)

IB8, IP3, T1, TP33

ERG No

154

##### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant

-

Danger label(s)

6.1



Special provisions (SP)

177, 223, 274

Excepted quantities (EQ)

E1

Limited quantities (LQ)

5 kg

EmS

F-A, S-A

Stowage category

A

##### **International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Danger label(s)

6.1



Special provisions (SP)

A3, A82

Excepted quantities (EQ)

E1

Limited quantities (LQ)

10 kg

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)  
none of the ingredients are listed
- Specific Toxic Chemical Listings (EPCRA Section 313)

##### Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance         | Remarks                                       | Effective date |
|---------------------------|-----------------------------------------------|----------------|
| Barium Chloride Dihydrate | except for barium sulfate (CAS No. 7727-43-7) | 1986-12-31     |

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)  
none of the ingredients are listed

##### Clean Air Act

none of the ingredients are listed

##### Right to Know Hazardous Substance List

- Hazardous Substance List (NJ-RTK)

| Name of substance         | Remarks | Classifications |
|---------------------------|---------|-----------------|
| Barium Chloride Dihydrate |         |                 |

##### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

##### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic             | /      | none                                                                                                                                                       |
| Health              | 2      | temporary or minor injury may occur                                                                                                                        |
| Flammability        | 0      | material that will not burn under typical fire conditions                                                                                                  |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |                                                                                                                                                            |

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### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description                                                                      |
|----------------|------------------|----------------------------------------------------------------------------------|
| Flammability   | 0                | material that will not burn under typical fire conditions                        |
| Health         | 3                | material that, under emergency conditions, can cause serious or permanent injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                     |
| Special hazard |                  |                                                                                  |

### National inventories

| Country | Inventory  | Status                              |
|---------|------------|-------------------------------------|
| AU      | AIIC       | all ingredients are listed          |
| CA      | DSL        | all ingredients are listed          |
| CN      | IECSC      | all ingredients are listed          |
| EU      | ECSI       | all ingredients are listed          |
| EU      | REACH Reg. | all ingredients are listed          |
| JP      | CSCL-ENCS  | all ingredients are listed          |
| KR      | KECI       | all ingredients are listed          |
| MX      | INSQ       | all ingredients are listed          |
| NZ      | NZIoC      | all ingredients are listed          |
| PH      | PICCS      | all ingredients are listed          |
| TR      | CICR       | all ingredients are listed          |
| TW      | TCSI       | all ingredients are listed          |
| US      | TSCA       | all ingredients are listed (ACTIVE) |

#### Legend

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)                                          |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances                                             |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act                                             |

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information, including date of preparation or last revision

#### Abbreviations and acronyms

| Abbr.            | Descriptions of used abbreviations                                                                                                                                               |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)                                  |
| 49 CFR US DOT    | 49 CFR U.S. Department of Transportation                                                                                                                                         |
| Acute Tox.       | Acute toxicity                                                                                                                                                                   |
| Aquatic Acute    | Hazardous to the aquatic environment - acute hazard                                                                                                                              |
| ATE              | Acute Toxicity Estimate                                                                                                                                                          |
| Cal/OSHA PEL     | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)                                                                             |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                           |
| Ceiling-C        | Ceiling value                                                                                                                                                                    |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                       |
| DNEL             | Derived No-Effect Level                                                                                                                                                          |
| DOT              | Department of Transportation (USA)                                                                                                                                               |
| EC50             | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED               | Endocrine disruptor                                                                                                                                                              |
| EINECS           | European Inventory of Existing Commercial Chemical Substances                                                                                                                    |
| ELINCS           | European List of Notified Chemical Substances                                                                                                                                    |
| EmS              | Emergency Schedule                                                                                                                                                               |
| ErC50            | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |
| ERG No           | Emergency Response Guidebook - Number                                                                                                                                            |
| GHS              | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                        |
| IATA             | International Air Transport Association                                                                                                                                          |
| IATA/DGR         | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                   |
| ICAO             | International Civil Aviation Organization                                                                                                                                        |
| ICAO-TI          | Technical instructions for the safe transport of dangerous goods by air                                                                                                          |
| IMDG             | International Maritime Dangerous Goods Code                                                                                                                                      |
| IMDG-Code        | International Maritime Dangerous Goods Code                                                                                                                                      |
| LC50             | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| NIOSH REL        | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)                                                                                |
| NLP              | No-Longer Polymer                                                                                                                                                                |
| NPCA-HMIS® III   | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition                                                                    |
| OSHA             | Occupational Safety and Health Administration (United States)                                                                                                                    |
| PBT              | Persistent, Bioaccumulative and Toxic                                                                                                                                            |
| PEL              | Permissible exposure limit                                                                                                                                                       |

# Safety Data Sheet

## V9202SS

Version number: 15.0

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| Abbr. | Descriptions of used abbreviations                                                                  |
|-------|-----------------------------------------------------------------------------------------------------|
| PNEC  | Predicted No-Effect Concentration                                                                   |
| ppm   | Parts per million                                                                                   |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| STEL  | Short-term exposure limit                                                                           |
| TWA   | Time-weighted average                                                                               |
| vPvB  | Very Persistent and very Bioaccumulative                                                            |

### Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                   |
|------|------------------------|
| H301 | Toxic if swallowed.    |
| H332 | Harmful if inhaled.    |
| H401 | Toxic to aquatic life. |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.