

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

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

#### 1.1 Product identifier

Trade name : Sodium Selenite / Vitamin E Injection Formulation

Other means of identification : E-SE Injection (A000603)

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

Use of the Substance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

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

Company : MSD  
Walton Manor, Walton  
MK7 7AJ Milton Keynes - United Kingdom

Telephone : +1-908-740-4000

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

|                                                                |                                                                          |
|----------------------------------------------------------------|--------------------------------------------------------------------------|
| Acute toxicity, Category 4                                     | H302: Harmful if swallowed.                                              |
| Acute toxicity, Category 4                                     | H332: Harmful if inhaled.                                                |
| Skin sensitisation, Category 1                                 | H317: May cause an allergic skin reaction.                               |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |
| Long-term (chronic) aquatic hazard, Category 3                 | H412: Harmful to aquatic life with long lasting effects.                 |

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

Version 4.2      Revision Date: 29.11.2023      SDS Number: 9372744-00007      Date of last issue: 30.09.2023  
Date of first issue: 27.08.2021

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

- Hazard pictograms :
- Signal word : Warning
- Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements : **Prevention:**  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
**Response:**  
P314 Get medical advice/ attention if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

Benzyl alcohol  
Sodium selenite

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name             | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification     | Concentration<br>(% w/w) |
|---------------------------|-------------------------------------------------------|--------------------|--------------------------|
| (dl)-a-Tocopheryl acetate | 7695-91-2<br>231-710-0                                |                    | 5.15                     |
| Benzyl alcohol            | 100-51-6                                              | Acute Tox. 4; H302 | 2.19                     |

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Version 4.2      Revision Date: 29.11.2023      SDS Number: 9372744-00007      Date of last issue: 30.09.2023  
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|                 |                                         |                                                                                                                                                                                                                                                                                  |             |
|-----------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|                 | 202-859-9<br>603-057-00-5               | Acute Tox. 4; H332<br>Eye Irrit. 2; H319                                                                                                                                                                                                                                         |             |
| Sodium selenite | 10102-18-8<br>233-267-9<br>034-003-00-3 | Acute Tox. 1; H300<br>Acute Tox. 2; H330<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>STOT RE 1; H372<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><hr/> M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1 | 0.35 - 1.13 |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.  
Get medical attention.  
Rinse mouth thoroughly with water.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



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|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
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| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

Never give anything by mouth to an unconscious person.

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

Risks : Harmful if swallowed or if inhaled.  
May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure.

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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|---------|----------------|---------------|---------------------------------|
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| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

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

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Do not breathe mist or vapours.  
Do not swallow.  
Avoid contact with eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Do not eat, drink or smoke when using this product.  
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

Version 4.2      Revision Date: 29.11.2023      SDS Number: 9372744-00007      Date of last issue: 30.09.2023  
Date of first issue: 27.08.2021

work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

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

Requirements for storage areas and containers : Keep in properly labelled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                | CAS-No.    | Value type (Form of exposure) | Control parameters         | Basis    |
|---------------------------|------------|-------------------------------|----------------------------|----------|
| (dl)-a-Tocopheryl acetate | 7695-91-2  | TWA                           | 5000 ug/m3 (OEB 1)         | Internal |
| Sodium selenite           | 10102-18-8 | TWA                           | 0.1 mg/m3 (selenium)       | GB EH40  |
|                           |            | TWA                           | 20 µg/m3 (OEB 3)           | Internal |
|                           |            | Wipe limit                    | 200 µg/100 cm <sup>2</sup> | Internal |

#### Derived No Effect Level (DNEL):

| Substance name  | End Use   | Exposure routes | Potential health effects   | Value              |
|-----------------|-----------|-----------------|----------------------------|--------------------|
| Sodium selenite | Workers   | Inhalation      | Long-term systemic effects | 0.11 mg/m3         |
|                 | Workers   | Skin contact    | Long-term systemic effects | 15.33 mg/kg bw/day |
|                 | Consumers | Inhalation      | Long-term systemic effects | 0.033 mg/m3        |
|                 | Consumers | Skin contact    | Long-term systemic effects | 9.42 mg/kg bw/day  |

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formula- tion

Version 4.2      Revision Date: 29.11.2023      SDS Number: 9372744-00007      Date of last issue: 30.09.2023  
Date of first issue: 27.08.2021

|                                   |           |              |                            |                        |
|-----------------------------------|-----------|--------------|----------------------------|------------------------|
|                                   | Consumers | Ingestion    | Long-term systemic effects | 0.00942 mg/kg bw/day   |
| Polyethylene glycol<br>castor oil | Workers   | Inhalation   | Long-term systemic effects | 16.4 mg/m <sup>3</sup> |
|                                   | Workers   | Skin contact | Long-term systemic effects | 4.67 mg/kg bw/day      |
|                                   | Consumers | Inhalation   | Long-term systemic effects | 2.9 mg/m <sup>3</sup>  |
|                                   | Consumers | Skin contact | Long-term systemic effects | 1.67 mg/kg bw/day      |
|                                   | Consumers | Ingestion    | Long-term systemic effects | 1.67 mg/kg bw/day      |
| (dl)-a-Tocopheryl<br>acetate      | Workers   | Inhalation   | Long-term systemic effects | 73.5 mg/m <sup>3</sup> |
|                                   | Workers   | Skin contact | Long-term systemic effects | 416.6 mg/kg bw/day     |
|                                   | Consumers | Inhalation   | Long-term systemic effects | 21.7 mg/m <sup>3</sup> |
|                                   | Consumers | Skin contact | Long-term systemic effects | 250 mg/kg bw/day       |
|                                   | Consumers | Ingestion    | Long-term systemic effects | 12.5 mg/kg bw/day      |
| Benzyl alcohol                    | Workers   | Inhalation   | Long-term systemic effects | 22 mg/m <sup>3</sup>   |
|                                   | Workers   | Inhalation   | Acute systemic effects     | 110 mg/m <sup>3</sup>  |
|                                   | Workers   | Skin contact | Long-term systemic effects | 8 mg/kg bw/day         |
|                                   | Workers   | Skin contact | Acute systemic effects     | 40 mg/kg bw/day        |
|                                   | Consumers | Inhalation   | Long-term systemic effects | 5.4 mg/m <sup>3</sup>  |
|                                   | Consumers | Inhalation   | Acute systemic effects     | 27 mg/m <sup>3</sup>   |
|                                   | Consumers | Skin contact | Long-term systemic effects | 4 mg/kg bw/day         |
|                                   | Consumers | Skin contact | Acute systemic effects     | 20 mg/kg bw/day        |
|                                   | Consumers | Ingestion    | Long-term systemic effects | 4 mg/kg bw/day         |
|                                   | Consumers | Ingestion    | Acute systemic effects     | 20 mg/kg bw/day        |

### Predicted No Effect Concentration (PNEC):

| Substance name  | Environmental Compartment | Value                      |
|-----------------|---------------------------|----------------------------|
| Sodium selenite | Fresh water               | 0.00585 mg/l               |
|                 | Marine water              | 0.00438 mg/l               |
|                 | Freshwater - intermittent | 0.012 mg/l                 |
|                 | Sewage treatment plant    | 3.285 mg/l                 |
|                 | Fresh water sediment      | 18 mg/kg dry weight (d.w.) |

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Version 4.2      Revision Date: 29.11.2023      SDS Number: 9372744-00007      Date of last issue: 30.09.2023  
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|                                |                             |                                 |
|--------------------------------|-----------------------------|---------------------------------|
|                                | Marine sediment             | 13.6 mg/kg dry weight (d.w.)    |
|                                | Soil                        | 0.22 mg/kg dry weight (d.w.)    |
|                                | Oral (Secondary Poisoning)  | 2.19 mg/kg food                 |
| Polyethylene glycol castor oil | Fresh water                 | 0.000 mg/l                      |
|                                | Freshwater - intermittent   | 0.0661 mg/l                     |
|                                | Marine water                | 0.000 mg/l                      |
|                                | Marine water - intermittent | 0.00661 mg/l                    |
|                                | Fresh water sediment        | 0.0129 mg/kg dry weight (d.w.)  |
|                                | Marine sediment             | 0.00129 mg/kg dry weight (d.w.) |
|                                | Soil                        | 0.00258 mg/kg dry weight (d.w.) |
| (dl)-a-Tocopheryl acetate      | Fresh water                 | 0.27 mg/l                       |
|                                | Marine water                | 0.027 mg/l                      |
|                                | Intermittent use/release    | 0.27 mg/l                       |
|                                | Sewage treatment plant      | 100 mg/l                        |
|                                | Fresh water sediment        | 212000 mg/kg                    |
|                                | Marine sediment             | 21200 mg/kg                     |
|                                | Soil                        | 74800 mg/kg                     |
| Benzyl alcohol                 | Fresh water                 | 1 mg/l                          |
|                                | Marine water                | 0.1 mg/l                        |
|                                | Intermittent use/release    | 2.3 mg/l                        |
|                                | Sewage treatment plant      | 39 mg/l                         |
|                                | Fresh water sediment        | 5.27 mg/kg                      |
|                                | Marine sediment             | 0.527 mg/kg                     |
|                                | Soil                        | 0.456 mg/kg                     |

### 8.2 Exposure controls

#### Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### Personal protective equipment

Eye/face protection : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

Hand protection



# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

Material : Chemical-resistant gloves

Remarks : Consider double gloving.  
Skin and body protection : Work uniform or laboratory coat.  
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
Use appropriate degowning techniques to remove potentially contaminated clothing.

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to BS EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

### SECTION 9: Physical and chemical properties

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

Appearance : Aqueous solution  
Colour : amber  
Odour : No data available  
Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)  
Water solubility : No data available

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

---

|                                        |   |                                                          |
|----------------------------------------|---|----------------------------------------------------------|
| Partition coefficient: n-octanol/water | : | Not applicable                                           |
| Auto-ignition temperature              | : | No data available                                        |
| Decomposition temperature              | : | No data available                                        |
| Viscosity                              | : |                                                          |
| Viscosity, kinematic                   | : | No data available                                        |
| Explosive properties                   | : | Not explosive                                            |
| Oxidizing properties                   | : | The substance or mixture is not classified as oxidizing. |

### 9.2 Other information

|                        |   |                   |
|------------------------|---|-------------------|
| Flammability (liquids) | : | No data available |
| Particle size          | : | Not applicable    |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

|                     |   |                                         |
|---------------------|---|-----------------------------------------|
| Hazardous reactions | : | Can react with strong oxidizing agents. |
|---------------------|---|-----------------------------------------|

### 10.4 Conditions to avoid

|                     |   |             |
|---------------------|---|-------------|
| Conditions to avoid | : | None known. |
|---------------------|---|-------------|

### 10.5 Incompatible materials

|                    |   |                  |
|--------------------|---|------------------|
| Materials to avoid | : | Oxidizing agents |
|--------------------|---|------------------|

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

|                                          |   |                                                        |
|------------------------------------------|---|--------------------------------------------------------|
| Information on likely routes of exposure | : | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|------------------------------------------|---|--------------------------------------------------------|

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formula- tion

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

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### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

|                           |   |                                                                                                                      |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | Acute toxicity estimate: 422.35 mg/kg<br>Method: Calculation method                                                  |
| Acute inhalation toxicity | : | Acute toxicity estimate: 4.33 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |

#### Components:

##### **(dl)-a-Tocopheryl acetate:**

|                       |   |                                                                                                |
|-----------------------|---|------------------------------------------------------------------------------------------------|
| Acute oral toxicity   | : | LD50 (Rat): > 5,000 mg/kg                                                                      |
| Acute dermal toxicity | : | LD50 (Rat): > 3,000 mg/kg<br>Assessment: The substance or mixture has no acute dermal toxicity |

##### **Benzyl alcohol:**

|                           |   |                                                                                                                 |
|---------------------------|---|-----------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat): 1,620 mg/kg                                                                                         |
| Acute inhalation toxicity | : | LC50 (Rat): > 4.178 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |

##### **Sodium selenite:**

|                           |   |                                                                                                                        |
|---------------------------|---|------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat): 4.8 mg/kg                                                                                                  |
| Acute inhalation toxicity | : | LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### **(dl)-a-Tocopheryl acetate:**

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Method  | : | OECD Test Guideline 404 |
| Result  | : | No skin irritation      |

##### **Benzyl alcohol:**

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Sodium selenite:

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 431

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 439

Result : Skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### (dl)-a-Tocopheryl acetate:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

#### Benzyl alcohol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

#### Sodium selenite:

Result : Irritation to eyes, reversing within 21 days

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### (dl)-a-Tocopheryl acetate:

Test Type : Draize Test  
Exposure routes : Skin contact  
Species : Humans  
Result : negative

#### Benzyl alcohol:

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

### Sodium selenite:

Assessment : Probability or evidence of skin sensitisation in humans  
Remarks : Based on national or regional regulation.

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### (dl)-a-Tocopheryl acetate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

#### Benzyl alcohol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### Sodium selenite:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

### Carcinogenicity

Not classified based on available information.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formula- tion

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

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### Components:

#### **(dl)-a-Tocopheryl acetate:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 104 weeks  
Result : negative

#### **Benzyl alcohol:**

Species : Mouse  
Application Route : Ingestion  
Exposure time : 103 weeks  
Method : OECD Test Guideline 451  
Result : negative

### **Reproductive toxicity**

Not classified based on available information.

### Components:

#### **(dl)-a-Tocopheryl acetate:**

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal develop-  
ment : Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Ingestion  
Result: negative

#### **Benzyl alcohol:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal develop-  
ment : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

#### **Sodium selenite:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formula- tion

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

Remarks: Based on data from similar materials

Effects on foetal develop-  
ment : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Components:

#### Sodium selenite:

Exposure routes : Ingestion  
Assessment : Shown to produce significant health effects in animals at con-  
centrations of 10 mg/kg bw or less.

### Repeated dose toxicity

### Components:

#### (dl)-a-Tocopheryl acetate:

Species : Rat  
NOAEL : 500 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days

#### Benzyl alcohol:

Species : Rat  
NOAEL : 1.072 mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 28 Days  
Method : OECD Test Guideline 412

#### Sodium selenite:

Species : Rat  
NOAEL : 0.88 mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks

### Aspiration toxicity

Not classified based on available information.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formula- tion

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

### Experience with human exposure

#### Components:

##### **Sodium selenite:**

|            |   |                                                                                                                                                                                                                              |
|------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | : | Target Organs: Respiratory Tract<br>Symptoms: Irritation, Oedema<br>Target Organs: Cardio-vascular system<br>Symptoms: Lowered blood pressure<br>Target Organs: Digestive organs<br>Symptoms: Nausea, Vomiting, Irritability |
| Ingestion  | : | Target Organs: Nervous system<br>Symptoms: Neurological disorders<br>Target Organs: Hair<br>Symptoms: hair loss<br>Target Organs: Skin<br>Symptoms: Rash, Skin disorders<br>Target Organs: Endocrine system                  |

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **(dl)-a-Tocopheryl acetate:**

|                                                     |   |                                                                                                                                                                                                                                                                |
|-----------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203                                                                                                                                               |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                                                                                                                                        |
| Toxicity to algae/aquatic plants                    | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms                          | : | EC50 : > 927 mg/l<br>Exposure time: 30 min<br>Method: ISO 8192                                                                                                                                                                                                 |
| Toxicity to fish (Chronic toxicity)                 | : | NOEC: 100 mg/l<br>Exposure time: 28 d<br>Species: Oncorhynchus mykiss (rainbow trout)                                                                                                                                                                          |



# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

Version 4.2      Revision Date: 29.11.2023      SDS Number: 9372744-00007      Date of last issue: 30.09.2023  
Date of first issue: 27.08.2021

### Benzyl alcohol:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Sodium selenite:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1 - 10 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.2 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Chlamydomonas reinhardtii (green algae)): > 0.1 - 1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials
- NOEC (Chlamydomonas reinhardtii (green algae)): > 0.1 - 1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): 180 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : NOEC: 0.022 mg/l  
Exposure time: 258 d  
Species: Lepomis macrochirus (Bluegill sunfish)

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.096 mg/l  
Exposure time: 28 d

M-Factor (Chronic aquatic toxicity) : 1

### 12.2 Persistence and degradability

#### Components:

##### **(dl)-a-Tocopheryl acetate:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 21.7 - 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

##### **Benzyl alcohol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 92 - 96 %  
Exposure time: 14 d

### 12.3 Bioaccumulative potential

#### Components:

##### **Benzyl alcohol:**

Partition coefficient: n-octanol/water : log Pow: 1.05

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formula- tion

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

### 12.7 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- |                        |   |                                                                                                                                                                                                                                                                                                                    |
|------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : | Dispose of in accordance with local regulations.<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.<br>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.<br>Do not dispose of waste into sewer. |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product.                                                                                                                                                        |

## SECTION 14: Transport information

### 14.1 UN number

- |      |   |                                   |
|------|---|-----------------------------------|
| ADN  | : | Not regulated as a dangerous good |
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

### 14.2 UN proper shipping name

- |      |   |                                   |
|------|---|-----------------------------------|
| ADN  | : | Not regulated as a dangerous good |
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

### 14.3 Transport hazard class(es)

- |      |   |                                   |
|------|---|-----------------------------------|
| ADN  | : | Not regulated as a dangerous good |
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

### 14.4 Packing group

- |     |   |                                   |
|-----|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
|-----|---|-----------------------------------|

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

**Other regulations:**

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

### The components of this product are reported in the following inventories:

|       |   |                |
|-------|---|----------------|
| AICS  | : | not determined |
| DSL   | : | not determined |
| IECSC | : | not determined |

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of H-Statements

|      |   |                                                                 |
|------|---|-----------------------------------------------------------------|
| H300 | : | Fatal if swallowed.                                             |
| H302 | : | Harmful if swallowed.                                           |
| H315 | : | Causes skin irritation.                                         |
| H317 | : | May cause an allergic skin reaction.                            |
| H319 | : | Causes serious eye irritation.                                  |
| H330 | : | Fatal if inhaled.                                               |
| H332 | : | Harmful if inhaled.                                             |
| H372 | : | Causes damage to organs through prolonged or repeated exposure. |
| H400 | : | Very toxic to aquatic life.                                     |
| H410 | : | Very toxic to aquatic life with long lasting effects.           |

#### Full text of other abbreviations

|                 |   |                                                        |
|-----------------|---|--------------------------------------------------------|
| Acute Tox.      | : | Acute toxicity                                         |
| Aquatic Acute   | : | Short-term (acute) aquatic hazard                      |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard                     |
| Eye Irrit.      | : | Eye irritation                                         |
| Skin Irrit.     | : | Skin irritation                                        |
| Skin Sens.      | : | Skin sensitisation                                     |
| STOT RE         | : | Specific target organ toxicity - repeated exposure     |
| GB EH40         | : | UK. EH40 WEL - Workplace Exposure Limits               |
| GB EH40 / TWA   | : | Long-term exposure limit (8-hour TWA reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |      |
|-------------------|------|
| Acute Tox. 4      | H302 |
| Acute Tox. 4      | H332 |
| Skin Sens. 1      | H317 |
| STOT RE 2         | H373 |
| Aquatic Chronic 3 | H412 |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Sodium Selenite / Vitamin E Injection Formula- tion

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 4.2     | 29.11.2023     | 9372744-00007 | Date of first issue: 27.08.2021 |

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