

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
SDS Reference Number: EQ0035  
Issue date: 07/09/2016 Revision date: 06/01/2026 Supersedes version of: 05/01/2025 Version: 1.4

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590  
Product code : EQ0035

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

##### Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Reference material  
Function or use category : Laboratory chemicals

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

##### Spectracer UK Ltd.

20 Seymour Mews,  
London,  
W1H 6BQ,  
United Kingdom.

Tel: +44 (0) 207 193 9114  
Fax: +44 (0) 203 432 4686  
Email: [contact@spectracer.com](mailto:contact@spectracer.com)  
Web: [www.spectracer.com](http://www.spectracer.com)

#### 1.4. Emergency telephone number

Country/Area	Organisation	Emergency number
Ireland	National Poisons Information Centre. Beaumont Hospital. Beaumont Hospital Beaumont Road 9 Dublin.	: +353 1 8379964
Malta	Medicines & Poisons Info Office. Mater Dei Hospital. Msida MSD 2090 Msida.	112 +356 2545 6508
United Kingdom	National Poisons Information Service (NHS Direct). <a href="http://www.npis.org">http://www.npis.org</a> .	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

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

No labelling applicable

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### 2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	sodium fluoride (7681-49-4) <sup>(1)</sup> , sodium nitrite (7632-00-0) <sup>(1)</sup> , potassium bromide (7758-02-3) <sup>(1)</sup> , sodium nitrate (7631-99-4) <sup>(1)</sup> , ammonium dihydrogen phosphate (7722-76-1), ammonium sulphate (7783-20-2) <sup>(1)</sup> , sodium chloride (7647-14-5) <sup>(1)</sup>
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	sodium fluoride (7681-49-4) <sup>(1)</sup> , sodium nitrite (7632-00-0) <sup>(1)</sup> , potassium bromide (7758-02-3) <sup>(1)</sup> , sodium nitrate (7631-99-4) <sup>(1)</sup> , ammonium dihydrogen phosphate (7722-76-1), ammonium sulphate (7783-20-2) <sup>(1)</sup> , sodium chloride (7647-14-5) <sup>(1)</sup>

<sup>(1)</sup> Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	$\geq 99$	Not classified
ammonium dihydrogen phosphate	CAS-No.: 7722-76-1 EC-No.: 231-764-5	0.1 – 0.25	Not classified
sodium chloride	CAS-No.: 7647-14-5 EC-No.: 231-598-3 REACH-no: 01-2119485491-33-XXXX	< 0.05	Skin Corr./Irrit. Not classified
sodium nitrite	CAS-No.: 7632-00-0 EC-No.: 231-555-9 EC Index-No.: 007-010-00-4	< 0.05	Ox. Sol. 2, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400
potassium bromide	CAS-No.: 7758-02-3 EC-No.: 231-830-3	< 0.05	Eye Irrit. 2, H319 STOT RE 2, H373
ammonium sulphate	CAS-No.: 7783-20-2 EC-No.: 231-984-1	< 0.05	Not classified
sodium nitrate	CAS-No.: 7631-99-4 EC-No.: 231-554-3	< 0.05	Ox. Sol. 3, H272 Eye Irrit. 2, H319
sodium fluoride	CAS-No.: 7681-49-4 EC-No.: 231-667-8 EC Index-No.: 009-004-00-7 REACH-no: 01-2119539420-47-XXXX	< 0.05	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 1, H372

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

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

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

#### 5.3. Advice for firefighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
------------------	--

##### For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area.

##### For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

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

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep cool. Protect from sunlight.
- Packaging materials : Always store product in container of same material as original container.

#### Germany

Storage class (LGK, TRGS 510)

: LGK 12 - Non-combustible liquids

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

: LGK 1, LGK 6.2, LGK 7

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 4.3, LGK 5.1C

Joint storage permitted for

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

sodium fluoride (7681-49-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Fluorides, inorganic
IOEL TWA	2.5 mg/m <sup>3</sup> (Fluorides, inorganic; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

<b>sodium fluoride (7681-49-4)</b>	
<b>EU - Biological Limit Value (BLV)</b>	
Local name	Fluorine and inorganic fluorides
BLV	8 mg/l Parameter: F - Medium: urine - Sampling time: end of shift
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	2.5 mg/m <sup>3</sup> (Fluorures inorganiques (en F); Belgium; Time-weighted average exposure limit 8 h)
<b>Gibraltar - Occupational Exposure Limits</b>	
Local name	Fluorides, inorganic
OEL TWA	2.5 mg/m <sup>3</sup>
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181)
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Fluorides, inorganic
OEL TWA	2.5 mg/m <sup>3</sup>
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
<b>Malta - Occupational Exposure Limits</b>	
Local name	Fluorides, inorganic # Fluorides,inorganici
OEL TWA	2.5 mg/m <sup>3</sup>
Regulatory reference	S.L. 424.24 - Chemical Agents at Work Regulations (L.N. 356 of 2021) # L.S. 424.24 - Regolamenti dwar Aġenti Kimiċi fuq il-Post tax-Xogħol (A.L. 356 tal-2021)
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-15min (OEL STEL)	2 mg/m <sup>3</sup> (Fluoriden, anorganisch en oplosbaar (als F); Netherlands; Short time value; Public occupational exposure limit value; als F)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	2.5 mg/m <sup>3</sup> Fluorides (inorganic as F); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
WEL STEL (OEL STEL)*	7.5 mg/m <sup>3</sup>
<b>USA - ACGIH® - Threshold Limit Values</b>	
Local name	Fluorides, as F
ACGIH® TLV® TWA	2.5 mg/m <sup>3</sup> (Fluorides, as F; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Remark (ACGIH®)	TLV® Basis: Bone dam; fluorosis. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
<b>USA - ACGIH® - Biological Exposure Indices</b>	
Local name	Fluorides
BEI	2 mg/l Parameter: Fluoride - Medium: urine - Sampling time: Prior to shift - Notations: B, Ns 3 mg/l Parameter: Fluorides - Medium: urine - Sampling time: End of shift - Notations: B, Ns

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

sodium fluoride (7681-49-4)	
Regulatory reference	ACGIH 2025

\*STEL value is calculated based on the TWA limit

sodium nitrite (7632-00-0)	
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Natrio nitritas
NRV (OEL C)	0.1 mg/m <sup>3</sup>
Remark	Ū (ūmus poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

ammonium sulphate (7783-20-2)	
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	Амониев сулфат
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.)

sodium chloride (7647-14-5)	
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Nātrija hlorīds
OEL TWA	5 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).

Lithuania - Occupational Exposure Limits	
Local name	Natrio chloridas
IPRV (OEL TWA)	5 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: $\approx 0\text{ }^{\circ}\text{C}$
Boiling point	: $\approx 100\text{ }^{\circ}\text{C}$
Flammability	: Non flammable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: $\approx 1.07$
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### sodium fluoride (7681-49-4)

LD50 oral rat	97.7 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

#### sodium nitrite (7632-00-0)

LD50 oral rat	180 mg/kg bodyweight
LC50 Inhalation - Rat	0.095 mg/l/4h

#### potassium bromide (7758-02-3)

LD50 oral rat	3070 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight

#### sodium nitrate (7631-99-4)

LD50 oral rat	3430 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l Source: OSHRI GLP toxicity test

#### ammonium dihydrogen phosphate (7722-76-1)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l/4h

#### ammonium sulphate (7783-20-2)

LD50 oral rat	2840 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight

#### sodium chloride (7647-14-5)

LD50 oral rat	3550 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 Inhalation - Rat	> 42 mg/l

Skin corrosion/irritation : Not classified

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

<b>sodium fluoride (7681-49-4)</b>	
pH	7.4
<b>sodium nitrite (7632-00-0)</b>	
pH	9 (10 %)
<b>sodium nitrate (7631-99-4)</b>	
pH	8 – 9 (100 g/l)
<b>ammonium dihydrogen phosphate (7722-76-1)</b>	
pH	3.6 – 4 (1 %)
<b>ammonium sulphate (7783-20-2)</b>	
pH	5.5 (1.3 %)
<b>sodium chloride (7647-14-5)</b>	
pH	7 – 10
<b>Water (7732-18-5)</b>	
pH	7 20 °C
Serious eye damage/irritation	: Not classified
<b>sodium fluoride (7681-49-4)</b>	
pH	7.4
<b>sodium nitrite (7632-00-0)</b>	
pH	9 (10 %)
<b>sodium nitrate (7631-99-4)</b>	
pH	8 – 9 (100 g/l)
<b>ammonium dihydrogen phosphate (7722-76-1)</b>	
pH	3.6 – 4 (1 %)
<b>ammonium sulphate (7783-20-2)</b>	
pH	5.5 (1.3 %)
<b>sodium chloride (7647-14-5)</b>	
pH	7 – 10
<b>Water (7732-18-5)</b>	
pH	7 20 °C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
<b>sodium fluoride (7681-49-4)</b>	
IARC group	3 - Not classifiable
<b>ammonium sulphate (7783-20-2)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	256 mg/kg bodyweight rat
NOAEL (chronic, oral, animal/female, 2 years)	284 mg/kg bodyweight rat
Reproductive toxicity	: Not classified

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

sodium fluoride (7681-49-4)	
LOAEL (oral, rat, 90 days)	≈ 4 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	≈ 25 mg/kg bodyweight
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

sodium nitrite (7632-00-0)	
NOAEL (subchronic, oral, animal/male, 90 days)	220 mg/kg bodyweight mouse
NOAEL (subchronic, oral, animal/female, 90 days)	165 mg/kg bodyweight mouse

potassium bromide (7758-02-3)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

sodium nitrate (7631-99-4)	
NOAEL (oral, rat, 90 days)	≥ 1500 mg/kg bodyweight

Aspiration hazard : Not classified

sodium nitrate (7631-99-4)	
Viscosity, kinematic	1.261 mm <sup>2</sup> /s

sodium chloride (7647-14-5)	
Viscosity, kinematic	Not applicable

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

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

sodium fluoride (7681-49-4)	
LC50 - Fish [1]	107.5 mg/l Fluorine (F-)
EC50 - Crustacea [1]	98 mg/l
NOEC (chronic)	14.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	4 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '21 d'

sodium nitrite (7632-00-0)	
LC50 - Fish [1]	0.54 – 26.3 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	15.4 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 100 mg/l Desmodesmus subspicatus

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

<b>potassium bromide (7758-02-3)</b>	
LC50 - Fish [1]	> 1000 mg/l <i>Lepomis macrochirus</i> (Bluegill)
EC50 - Crustacea [1]	≥ 1000 mg/l <i>Daphnia magna</i> (Water flea)
EC50 72h - Algae [1]	> 440 mg/l <i>Skeletonema costatum</i> (marine diatom)
NOEC chronic fish	10 mg/l <i>Poecilia reticulata</i> (Guppy)
<b>sodium nitrate (7631-99-4)</b>	
LC50 - Fish [1]	> 100 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
<b>ammonium dihydrogen phosphate (7722-76-1)</b>	
LC50 - Fish [1]	85.9 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Crustacea [1]	> 1000 mg/l <i>Daphnia magna</i> (Water flea)
<b>ammonium sulphate (7783-20-2)</b>	
LC50 - Fish [1]	53 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
EC50 - Crustacea [1]	169 mg/l <i>Daphnia magna</i> (Water flea)
<b>sodium chloride (7647-14-5)</b>	
LC50 - Fish [1]	5840 mg/l <i>Lepomis macrochirus</i> (Bluegill)
EC50 - Crustacea [1]	874 mg/l <i>Daphnia magna</i> (Water flea)
LOEC (chronic)	441 mg/l <i>Daphnia pulex</i>
NOEC (chronic)	314 mg/l <i>Daphnia pulex</i>
NOEC chronic fish	252 mg/l <i>Pimephales promelas</i> (Fathead minnow)

## 12.2. Persistence and degradability

<b>Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590</b>	
Persistence and degradability	Rapidly degradable
<b>sodium fluoride (7681-49-4)</b>	
Persistence and degradability	Rapidly degradable
<b>sodium nitrite (7632-00-0)</b>	
Persistence and degradability	Rapidly degradable
<b>potassium bromide (7758-02-3)</b>	
Persistence and degradability	Rapidly degradable
<b>sodium nitrate (7631-99-4)</b>	
Persistence and degradability	Rapidly degradable
<b>ammonium dihydrogen phosphate (7722-76-1)</b>	
Persistence and degradability	Rapidly degradable
<b>ammonium sulphate (7783-20-2)</b>	
Persistence and degradability	Rapidly degradable
<b>sodium chloride (7647-14-5)</b>	
Persistence and degradability	Rapidly degradable

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

Water (7732-18-5)	
Persistence and degradability	Rapidly degradable

### 12.3. Bioaccumulative potential

sodium fluoride (7681-49-4)	
BCF - Fish [1]	2.3
Partition coefficient n-octanol/water (Log Pow)	-0.77
Bioaccumulative potential	Not bioaccumulative.

sodium nitrite (7632-00-0)	
Partition coefficient n-octanol/water (Log Pow)	-3.7
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

sodium nitrate (7631-99-4)	
Partition coefficient n-octanol/water (Log Pow)	-3.8

ammonium sulphate (7783-20-2)	
Partition coefficient n-octanol/water (Log Pow)	-5.1

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	sodium fluoride (7681-49-4) <sup>(1)</sup> , sodium nitrite (7632-00-0) <sup>(1)</sup> , potassium bromide (7758-02-3) <sup>(1)</sup> , sodium nitrate (7631-99-4) <sup>(1)</sup> , ammonium dihydrogen phosphate (7722-76-1), ammonium sulphate (7783-20-2) <sup>(1)</sup> , sodium chloride (7647-14-5) <sup>(1)</sup>
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	sodium fluoride (7681-49-4) <sup>(1)</sup> , sodium nitrite (7632-00-0) <sup>(1)</sup> , potassium bromide (7758-02-3) <sup>(1)</sup> , sodium nitrate (7631-99-4) <sup>(1)</sup> , ammonium dihydrogen phosphate (7722-76-1), ammonium sulphate (7783-20-2) <sup>(1)</sup> , sodium chloride (7647-14-5) <sup>(1)</sup>

<sup>(1)</sup> Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

potassium bromide (7758-02-3)	
Other information	Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Ecological waste information	: The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not dangerous goods in terms of transport regulations				
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

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

Not applicable

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### SECTION 15: Regulatory information

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

##### EU-Regulations

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
65.	ammonium dihydrogen phosphate ; ammonium sulphate	Inorganic ammonium salts

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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

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

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Sodium fluoride (7681-49-4).

##### Explosives Precursors Regulation (EU 2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Sodium nitrate	7631-99-4	3102 50 00	ex 3824 99 96

##### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

##### National regulations

##### Denmark

Danish National Regulations

: Pregnant/breastfeeding women working with the product must not be in direct contact with it.

If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### Finland

### France

Occupational diseases	
Code	Description
RG 32	Occupational disorders caused by fluoride, hydrofluoric acid and its mineral salts
RG 78	Diseases caused by sodium chloride in salt mines and their dependencies

### Germany

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)).

### Netherlands

ABM category : B(4) - low hazard for aquatic organisms  
SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Poland

Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)  
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
1.1	Trade name	<b>Added</b>
1.2	Use of the substance/mixture	<b>Modified</b>
1.2	Main use category	<b>Modified</b>
3	Composition/information on ingredients	<b>Modified</b>
9	Freezing point	<b>Added</b>
9	Odour	<b>Added</b>
9	Colour	<b>Added</b>
9	Boiling point	<b>Added</b>
9	Relative density	<b>Modified</b>
15.1	REACH Annex XVII	<b>Added</b>

Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstracts Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

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

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Skin Corr./Irrit. Not classified	Skin corrosion/irritation Not classified
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H315	Causes skin irritation.

# Combined Seven Anion Standard II - 7 components - Equivalent to Dionex Ref: P/N057590

## Safety Data Sheet

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

### Full text of H- and EUH-statements:

H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.