

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/16/2014 Revision date: 06/16/2014 Version: 1.1

SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture		
Name	: Multi-component Standard Solution for	or Ion Chromatograp	hy.
	6 Components in water		
Product code	: CM8933		
.2. Relevant identified uses of the sub	ostance or mixture and uses advised aga	ainst	
No additional information available	stance of mixture and uses duvised aga	inist	
I.3. Details of the supplier of the safety	- defe - de est		
Spectracer UK Ltd. Second Floor, 27 Gloucester Place, London, W1U 8HU, United Kingdom. Tel: +44 (0) 207 193 9114			
Fax:+44 (0) 203 432 4686 Email: <u>contact@spectracer.co.uk</u> Web: <u>www.spectracer.com</u>			
1.4. Emergency telephone number			
Emergency number	: Tel: +44(0)1933445260 Option 1. For Chemical Emergencies Only Llewellyn (Safety Advisors) Europe Lt	Language: English o	only.
SECTION 2: Hazard(s) identification	า		
2.1. Classification of the substance or	mixture		
GHS-US classification			
Not classified			
2.2. Label elements			
GHS-US labeling			
No labeling applicable			
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
	on on in modionte		
SECTION 3: Composition/Informati	on on ingredients		
3.1. Substance			
Not applicable			
3.2. Mixture			
Name	Product identifier	%	GHS-US classification
ammonium dihydrogen phosphate sodium fluoride	(CAS No) 7722-76-1 (CAS No) 7681-49-4	< 0.1	Not classified Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Agueta April 2, H402
sodium chloride	(CAS No) 7647-14-5	< 0.1	Aquatic Acute 3, H402 Not classified
ammonium sulfate	(CAS No) 7047-14-5 (CAS No) 7783-20-2	< 0.1	Not classified
	(====, == == =		
sodium nitrate	(CAS No) 7631-99-4	< 0.1	Acute Tox. 4 (Oral), H302

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard classes and H-statements : see section 16

Full text of hazard classes and H-statements	· See Section to
SECTION 4: First aid measures	
4.1. Description of first aid measures	S
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate med	dical attention and special treatment needed
Treat symptomatically.	
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SECTION 5: Firefighting measure	
5.1. Extinguishing media	- Foom Dry nowdor Corbon diavida Water annay Sand
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Insuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel.
6.1.2. For emergency responders	. Do not attempt to take action without suitable protective equipment. Fault cleanup arow with
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.
5.2. Environmental precautions	
	ntry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
5.3. Methods and material for contain	
Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or
	diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>SECTION 7: Handling and storage</b>	e
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
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, incl	luding any incompatibilities
Storage conditions	Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat-ignition. Store in a well-ventilated place. Keep cool.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

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

8.1. Control para	ameters	
sodium chloride (76	347-14-5)	
Not applicable		
sodium fluoride (76	81-49-4)	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup>
OSHA	Remark (OSHA)	(4) CAS No. varies with compound.
ammonium dihydro	gen phosphate (7722-76-1)	
Not applicable		
ammonium sulfate	(7783-20-2)	
Not applicable		
sodium nitrate (763	1-99-4)	
Not applicable		

8.2. Exposure controls	
Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Ensure good ventilation of the work station.
Personal protective equipment	: Protective goggles. Gloves.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.</li> </ul>
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and cher	nical properties
SECTION 5. Physical and cher	
9.1 Information on basic physics	l and chemical properties

9.1. Information on basic physical	• •
Physical state	: Liquid
Color	: Colorless
Odor	: characteristic
Odor threshold	: No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.01
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
<b>SECTION 10: Stability and reactivit</b>	У
10.1. Reactivity	

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

The pro	duct is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Not esta	ablished.
10.3.	Possibility of hazardous reactions
Not esta	ablished.
10.4.	Conditions to avoid
Direct s	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
Strong a	acids. Strong bases.
10.6.	Hazardous decomposition products
Fume. (	Carbon monoxide. Carbon dioxide.

#### SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity

: Not classified

sodium chloride (7647-14-5)	
LD50 oral rat	3000 mg/kg (Rat; Experimental value; 3550 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)
ATE US (oral)	3000.000 mg/kg body weight
sodium fluoride (7681-49-4)	
LD50 oral rat	52 mg/kg (Rat)
ATE US (oral)	52.000 mg/kg body weight
ammonium dihydrogen phosphate (7722-76-1	
LD50 oral rat	5750 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
08/23/2016	EN (English US) 4/8

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5750.000 mg/kg body weight         2840 mg/kg (Rat)         2840.000 mg/kg body weight         1270 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 3430 mg/kg bodyweight; Rat)         > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)         1270.000 mg/kg body weight         : Not classified         : Not classified	
2840.000 mg/kg body weight         1270 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 3430 mg/kg bodyweight; Rat)         > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)         1270.000 mg/kg body weight         : Not classified	
2840.000 mg/kg body weight         1270 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 3430 mg/kg bodyweight; Rat)         > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)         1270.000 mg/kg body weight         : Not classified	
1270 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 3430 mg/kg bodyweight; Rat)         > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)         1270.000 mg/kg body weight         : Not classified	
bodyweight; Rat)         > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)         1270.000 mg/kg body weight         : Not classified         : Not classified         : Not classified         Based on available data, the classification criteria are not met	
bodyweight; Rat)         > 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)         1270.000 mg/kg body weight         : Not classified         : Not classified         : Not classified         Based on available data, the classification criteria are not met	
1270.000 mg/kg body weight         Not classified         Not classified         Not classified         Not classified         Based on available data, the classification criteria are not met	
<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> </ul>	
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: Not classified Based on available data, the classification criteria are not met	
Based on available data, the classification criteria are not met	
: Not classified	
3 - Not classifiable	
: Not classified	
Based on available data, the classification criteria are not met	
: Not classified	
: Not classified	
: Not classified	
: Based on available data, the classification criteria are not met.	
: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
5840 mg/l (LC50; ASTM; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)	
2430 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 120 h; Algae; Static system; Fresh water; Experimental value)	
> 530 mg/l (LC50; 96 h)	
98 mg/l (EC50; 48 h)	
1)	
155 mg/l (96 h; Pimephales promelas)	
202 mg/l (EC50; 96 h)	
250 - 480 mg/l (LC50; 96 h; Brachydanio rerio)	
> 1700 mg/l (10 days; Algae; EC50; Other)	
4650 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental	

value)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

sodium nitrate (7631-99-4)	
EC50 Daphnia 2	7240 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 24 h; Daphnia magna; Static system; Fresh water; Experimental value)
2.2. Persistence and degradability	
Multi-component Standard Solution for I 6 Components in water	on Chromatography.
Persistence and degradability	Not established.
sodium chloride (7647-14-5)	
Persistence and degradability	Biodegradability: Not applicable. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
sodium fluoride (7681-49-4)	
Persistence and degradability	Biodegradability: Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	
ThOD	Not applicable
	Not applicable
ammonium dihydrogen phosphate (7722	
Persistence and degradability	Biodegradability in water: no data available.
ammonium sulfate (7783-20-2)	
Persistence and degradability	Biodegradability in water: no data available.
sodium nitrate (7631-99-4)	
Persistence and degradability	Biodegradability: Not applicable. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
2.3. Bioaccumulative potential	
Multi-component Standard Solution for I	on Chromatography.
6 Components in water	Netestablished
Bioaccumulative potential	Not established.
sodium chloride (7647-14-5)	
Log Pow	-3.0 (Calculated)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
sodium fluoride (7681-49-4)	
BCF fish 1	2.3 (BCF)
Bioaccumulative potential	Not bioaccumulative.
ammonium dihydrogen phosphate (7722	
Bioaccumulative potential	Not bioaccumulative.
ammonium sulfate (7783-20-2)	E 4
Log Pow Bioaccumulative potential	-5.1 Bioaccumulation: Not applicable.
· ·	
sodium nitrate (7631-99-4)	-3.8
Log Pow	-3.8 Bioaccumulation: Not applicable.
Bioaccumulative potential	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	nday, March 26, 2012 / Rules and Regulations
sodium fluoride (7681-49-4)	
Ecology - soil	Toxic to flora.
2.5. Other adverse effects	
Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal considera	ations
3.1. Waste treatment methods	
Vaste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
cology - waste materials	: Avoid release to the environment.
SECTION 14: Transport informat	ion
Department of Transportation (DOT)	
n accordance with DOT	
lot regulated	
DG	
Not regulated	
ransport by sea	
Not regulated	
Air transport	
Not regulated	
SECTION 15: Regulatory informa	ation
5.1. US Federal regulations	
sodium chloride (7647-14-5)	
Listed on the United States TSCA (Toxic S	Substances Control Act) inventory
sodium fluoride (7681-49-4)	
Listed on the United States TSCA (Toxic S Not subject to reporting requirements of the	

ammonium dihydrogen phosphate (7722-76-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

CANADA

No additional information available

#### **EU-Regulations**

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**National regulations** 

No additional information available

**15.3. US State regulations** No additional information available

SECTION 16: Other information	
Revision date	: 06/16/2014
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.
Full text of H-phrases:	
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H402	Harmful to aquatic life
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: C
	C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

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.