

Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

data 00/00/0045

viewed on 06/02/2015

				0/02/201
1 Identification				
· Product identifier				
 Product number: SD Relevant identified u 	n ISE Standard Solution 00CA1-xx, or SD0CA2-xx uses of the substance or mixtul 0.1 M as Ca ²⁺ , or 1000 ppm as 0		against	
Application of the su Details of the suppli Manufacturer/Suppli Analytical Sensors & I 12800 Park One Drive	ubstance / the mixture Buffers, F er of the safety data sheet ier: Instruments, Ltd.		olutions	
Sugar Land TX, 7747 www.asi-sensors.com		818 x 133		
Hazard(s) identif	-			
· Classification of the	substance or mixture t need classification according t	o OSHA HazCom S	tandard 29 CFR paragra	aph (d)
 Hazard pictograms Signal word Non-Reg 	Non-Regulated Material <i>m:</i>			
Health = Fire = 0 Reactivit				
HMIS-ratings (scale	0 - 4)			
HEALTHImage: Constraint of the sectiveFIREImage: Constraint of the sectiveREACTIVITYReactive)			
· Hazard(s) not otherv	vise classified (HNOC): None kr	iown		
3 Composition/info	ormation on ingredients			
7722 19 E water diet				
1132-16-5 Water, usi	tilled water, deionized water			90-99
Chemical characteri		onhazardous additio	าร.	90-99
Chemical characteri	zation: Mixtures of substances listed below with n	onhazardous additio	าร.	90-99%

· Description of first aid measures

• General information: No special measures required.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

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- After skin contact: Generally the product does not irritate the skin.
- Rinse with warm water.
- If skin irritation occurs, consult a doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water.
- If eye irritation occurs, consult a doctor.
- After swallowing: If swallowed and symptoms occur, consult a doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
- Dispose of the collected material according to regulations.
- Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.



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· Control parameters

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands: Not required.
- Material of gloves Not required.
- · Penetration time of glove material Not applicable.
- · Eye protection:



Goggles recommended during refilling.

9 Physical and chemical properties

 Information on basic physical and c General Information 	hemical properties
 Appearance: Form: Color: Odor: Odor threshold: 	Liquid Clear, colorless Odorless Not determined.
· pH-value @ 20 °C (68 °F):	7.0
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined. 100 °C (212 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	0.0 Vol % 0.0 Vol %
· Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density @ 20 °C (68 °F):	1.01 g/cm³ (8.428 lbs/gal)



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 Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Fully miscible.
· Partition coefficient (n-octanol/w	vater): Not determined.
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.
 Solvent content: Organic solvents: Water: 	0.0 % 90-99 %
Solids content: • Other information	\leq 2.5 % No further relevant information available.

0 Stability and reactivity

· *Reactivity* No further relevant information available.

- · Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Strong acids, Borane/Boron Oxides, Zinc, Calcium Oxide, Methyl Vinyl Ether and Bromine Trifluoride.

Hazardous decomposition products: Calcium Oxides and Hydrochloric acid gas.

1 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

7774-34-7 Calcium Chloride

Oral LD50 2301 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: No irritating effect.
- · on the eye: No irritating effect.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

None of the ingredients are listed.

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·NTP	(National	Toxicology	Program)
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None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

2 Ecological information

- · Toxicity
- · Aquatic toxicity:

7774-34-7 Calcium Chloride

EC50 2400 mg/l (daphnia)

- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packagings:

Recommendation:

Dispose of as unused product.

Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information

 UN-Number DOT, ADN, IMDG, IATA ADR UN proper shipping name DOT, ADR, ADN, IMDG, IATA 	Non-Regulated Material Non-Regulated Material Not Regulated Non-Regulated Material
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Non Dogulated Material
· Packing group	Non-Regulated Material
· DOT, ADR, IMDG, IATA	Non-Regulated Material
 Environmental hazards: 	Not applicable.
 Special precautions for user 	Not applicable.
 Transport in bulk according to Annex II 	of
MARPOL73/78 and the IBC Code	Not applicable.



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· UN "Model Regulation":

5 Regulatory information

- $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara
- Section 355 (extremely hazardous substances):

None of the ingredients are listed.

- · Section 313 (Specific toxic chemical listings):
- None of the ingredients are listed.
- TSCA (Toxic Substances Control Act):

7732-18-5 water, distilled water, deionized water

- · California Proposition 65
- · Chemicals known to cause cancer:
- None of the ingredients are listed.
- Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
- Chemicals known to cause reproductive toxicity for males:
- None of the ingredients are listed.
- · Chemicals known to cause developmental toxicity:
- None of the ingredients are listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency)
- None of the ingredients are listed.
- TLV (Threshold Limit Value established by ACGIH)
- None of the ingredients are listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health)
- None of the ingredients are listed.
- · GHS label elements Non-Regulated Material
- · Hazard pictograms Non-Regulated Material
- · Signal word Non-Regulated Material
- · Hazard statements Non-Regulated Material
- National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· State Right to Know			
CAS: 7732-18-5	water, distilled water, deionized water		90-99%
CAS: 7774-34-7 RTECS: EV 9800000	Calcium Chloride	1 Eye Irrit. 2A, H319	≤ 2.5%
All ingradiants are list			

All ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of



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this information and the suitability of the material or product for any particular purpose.

- · Date of preparation / last revision 06/02/2015 / -
- Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
- * Data compared to the previous version altered.

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