

1.	Identification of the Substa	ance / Preparat	tion and of the Company / Undertaking				
1.1	Product Details	•	EK® Standard Solution REF SS-251				
1.2	Use of the preparation	ELITechGroup Inc CHLOROCHEK® Standard Solution is an aqueous solution used to conditioning or check the performance of ChloroChek® Chloridometer® by qualified personnel.					
1.3	Identification of the Manufacturer / Supplier		ELITechGroup Inc 370 West 1700 South Logan, Utah 84321-5294 USA				
1.3.1 1.3.2	Information Provider by / eMail Issued / Revised on:		phone: +1 (435)752-6011 fax: +1 (435)752-4127 QA/RA Dept.: qarawescor@elitechgroup.com 16.07.2015				
2.	Hazards Identification						
2.1	Hazards description		Contact with the eyes can cause irritation.				
2.1.1	Classification (1272/2008/EC) GHS/CLP		Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. (GHS/CLP)				
	Classification (67/548/EEC,1999/45/EC)		Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.				
2.2	Label elements		Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. (GHS/CLP) Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC. R-phrases/S-phrases: not applicable.				
	OSHA hazard overview (Criteria according to 29CFR1910.1200) NFPA ratings (scale 0 - 4) HMIS-ratings (scale 0 - 4)		Not applicable				
			Health = 0 Fire = 0 Reactivity = 0				
			Health = 0 Fire = 0 Reactivity = 0				
2.3	Other hazards		This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).				



3.	Composition / Information on Ingredients					
3.1 3.1.1	Chemical Characterization (single substance) CAS no. (notation according to EEC)	7647-14-5 sodium chloride (NaCl) 7732-18-5 water (H ₂ O)				
3.1.2 3.2 3.2.1	Additional Information Chemical Characterization (Preparation) Specification	- NaCl in aqueous solution. Concentration in mOsmol/kg and mmol/l (NaCl/H ₂ O), see 1.1				
3.2.2 3.2.3 3.2.4	Hazardous Ingredients EINECS no. Other Data	no See 15.3 International Inventories -				
3.3	Indication of Danger	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. (GHS/CLP) Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.				
3.4	Special Risks to Human and Environment	No				
4.	First Aid Measures					
4.1 4.2	General Information After Inhalation	No special measures necessary.				
4.3 4.4	After Skin Contact After Eye Contact	Flush immediately with copious quantities of water. Causes irritation. Flush immediately with copious quantities of tepid water for at least 5 minutes.				
4.5 4.6	After Ingestion Notes for the Doctor	In case of queasiness summon a doctor immediately.				
5.	Firefighting Measures					
5.1 5.2	Extinguisher Media Extinguisher media that must not be used for safety reasons	As appropriate for surrounding fire and materials.				
5.3	Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases	No hazardous substances leak.				
5.4	Special Protective Equipment for Firefighting	Firefighters should use self-contained breathing equipment and protective clothing.				
5.5	Other Data	This material is assumed to be non-combustible.				
6.	Accidental Release Measures					
6.1	Personal Precautions	Not necessary. Material is assumed to be non-combustible.				
6.2 6.3	Environmental Precautions Methods for Cleaning Up / Taking Up	Do not discharge into surface waters/groundwater. Pick up with absorbent material. Send in suitable containers for disposal. Flush with copious quantities of water.				
6.4	Other Data	No hazardous substances leak.				
7.	Handling and Storage					
7.1 7.1.1 7.1.2 7.2 7.2.1	Handling Advice on safe handling Advice on fire and explosion protection. Storage Requirements for storage rooms and vessels	No particular measures necessary. No. This material is assumed to be non-combustible.				
7.2.1 7.2.2 7.2.3 7.2.4	Hints on storage assembly Further information on storage conditions Storage-class (German)	No special requirements. n/f Unopened between 5°C45°C (41 - 113°F) 10-13 other liquids and solids				



8.	Exposure controls / personal protection	
8.1 8.2 8.2.1 8.2.2 8.3 8.3.1 8.3.2 8.3.3 8.3.4 8.3.5	Additional Hints on Design of Technical Facilities Ingredients with occupational exposure limits to be monitored CAS no., Notation, Constitution, Value, Unit Additional Information Personal Equipment Respiratory Protection Hand Protection Eye Protection Skin Protection General Protective and Hygiene Measures Hygiene Measures	No particular measures necessary. n/f - Safety Gloves (alkali-resistant) Safety Goggles Clothing as usual in the chemical industry Observe the usual precautions when handling chemicals. Avoid contact with eyes and skin. Use barrier skin cream. Do not eat and drink at work. Before pauses and after work clean hands.
9.	Physical and Chemical Properties	
9.1 9.1.1 9.1.2 9.1.3 9.2 9.2.1 9.2.2 9.2.3 9.2.4 9.2.5 9.2.6 9.2.7 9.2.8 9.2.9 9.2.10 9.3	Appearance Form Colour Odour Safety Data (value, range, method- 67/548/EG) pH-value T=20°C Changes in physical state – Melting Point (NaCl) Boiling Point (NaCl) Flash Point Flammability (solid/gas) Ignition Point Autoflammability Oxidizing Properties Explosion Properties Flammable Limit UFL LFL Other Data	Liquid (Aqueous solution in OPC-ampoules) Colourless Odourless Approx. 5.5 801 °C (1473.8°F) 1413 °C (2575.4°F) n/f Not Inflammable n/f n/f Not Explosive n/f n/f -
10.	Stability and Reactivity	
10.1 10.2 10.3 10.4	Conditions to Avoid Material to Avoid Hazardous Decomposition Products Other Data	Incompatible products, Excess heat. n/f Hydrogen chloride gas. Sodium oxides



11.	Toxicological Information					
11.1 11.1.1	Toxicological Assay Acute Toxicity (NaCl)	D ₅₀ oral/Ratte: 3000 mg/kg; Method: OECD 401 D ₅₀ dermal/Ratte: >10000 mg/kg;				
		The solution has no acute oral/dermal toxicity, Contains no hazardous ingredients according to GHS				
11.1.2	Acute inhalation toxicity	The solution has no acute oral toxicity, Contains no hazardous ingredients according to GHS				
11.1.3	Acute dermal toxicity	The solution has no acute oral toxicity, Contains no hazardous ingredients according to GHS				
11.1.4	Skin corrosion/irritation	Result: not known in this concentration, Contains no hazardous ingredients according to GHS				
11.1.5	Serious eye damage/eye irritation	Contact with the eyes can cause irritation, Contains no hazardous ingredients according to GHS				
11.1.6	Respiratory or skin sensitization	Result: Does not cause skin sensitization., Contains no hazardous ingredients according to GHS				
		Result: Does not cause respiratory sensitization., Contains no hazardous ingredients according to GHS				
11.1.7	Carcinogenicity	Contains no ingredient listed as a carcinogen				
11.1.8	Reproductive toxicity	Contains no ingredient listed as toxic to reproduction				
11.1.9	Teratogenicity	Contains no ingredient listed as toxic to reproduction				
11.1.10	STOT - single exposure	Assessment: The solution is not classified as specific target organ toxicant, single exposure. Remarks: Contains no hazardous ingredients according to GHS				
11.1.11	STOT - repeated exposure	Assessment: The solution is not classified as specific target organ toxicant, repeated exposure. Remarks: Contains no hazardous ingredients according to GHS				
11.2 11.2.1	Practical Experience Relevant Observations IARC (International Agency for Research on Cancer) NTP (National Toxicology Program)	Poison-Class (CH): F (free) Substance is not listed Substance is not listed				
11.4	Other Data	The product contains no substances classified as hazardous to health in concentrations which should be taken into account. Health injuries are not known or expected under normal use.				



12.	Ecological Information					
12.1	Data on Elimination (Persistence an Degradability)		Not applicable			
12.2	Environment-Compartment Proceeding		Quantitative data on the ecological effect of this product are not available.			
12.3 12.3.1 12.3.2			Contains no hazardous ingredients according to GHS Contains no hazardous ingredients according to GHS			
12.4 12.4.1 12.4.2	Other Adverse Effects CSB-Value BSB ₅ - Value	mg/kg mg/g	- n/f			
12.4.3	AOX-Value		Product has no organohalogen compounds and does not redound to the AOX-Value.			
12.4.4	Product Contains Compositions of Heavand Chemical Compounds According to 76/464 EEC		No			
12.4.5	General Remarks		NaCl solutions have corrosive characteristics on many metals.			
13.	Disposal Considerations					
13.1	Product					
13.1.1	Recommendation		Handle this product according to established good laboratory practise. Transfer the solution in containers for neutral aqueous solutions. Observe local requirements for disposal of chemicals and rest material. Never dispose remainders in house rubbish/sink/WC.			
13.2	Uncleaned Packing					
13.2.1			Dispose according to local requirements (law). Waste regulation (EU): 2008/98/EC			
13.2.2	Recommended Purifying Agent		-			
14.	Transport Information					
14.1	UN-Number DOT, ADR, ADN, IMDG, IATA		Not a dangerous substance as defined in the above regulations.			
14.2	UN proper shipping name DOT, ADR, ADN, IMDG, IATA		Not classified as dangerous in the meaning of transport regulations.			
14.3	Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA		Not classified as dangerous in the meaning of transport regulations.			
14.4	Packing group DOT, ADR, IMDG, IATA		Not classified as dangerous in the meaning of transport regulations.			
14.5	Special precautions for user		Not applicable			
14.6	UN "Model Regulation"		-			
14.7	Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of	Not applicable			

Safety Data Sheet acc. to ISO/DIS 11014 and (EC) No. 1907/2006 (REACH)



15. Regulatory Information

15.1 Labelling According to EC Directive

15.1.1 Labelling According to EC Directive/Ordinance on Hazardous

Substances / Chemical Act labelling is not required - the general precautions when dealing with chemicals

have to be observed.

15.1.2 Regulatory Components REACH This mixture contains no ingredient which is subject

to an authorization according to Regulation (EC) No.

1907/2006 (REACH).

15.1.6 special Labelling No

15.2 National Provisions

15.2.1 Hints on Job Activity Restrictions n/f
15.2.2 Statutory Order on Hazardous Incidents n/f

15.2.4 Technical Guidance Air

15.2.5 Water hazard class (Germany) WGK 1: (slightly hazardous for water)

15.2.7 Other Provisions

Poison-Class CH F (free)

International Inventories

15.3

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Sodium chloride	231-598-3	-		Х	X	-	Χ	Χ	Χ	Χ	Χ
Water	231-791-2	-		Χ	Х	-	X	-	X	Χ	Χ

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

16. Other Information n/f = not found

16.1 Modified

change in wording MSDS to SDS

Specifications made in this Safety Data Sheet are only valid for the mentioned product. They do not apply when the product is used with other materials or in other manufacturing processes. These specifications are based on our today's knowledge and experience and serve to describe the product in respect to safety precautions. They do not serve as warranty of a quality.