

Product Name	Chloride Standard Solution
Part Number	RXSOL-63-6128-500

Company Details:

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Chemical Name	CAS	EC number	Weight	Chloride standard solution
7647-14-5	--			

Signal Word	None	Hazard Statements	H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life.	Precautionary statements	P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
				Classification of the substance or mixture	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
		Supplemental Hazard Statements			EUH032 Contact with acids liberates very toxic gas.
		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.		

General advice	None	If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.		
Eye Contact	Flush eyes with water as a precaution.	Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.		
	Skin Contact	Wash off with soap and plenty of water.	Inhalation	Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary.	
		Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.		
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11				
Indication of any immediate medical attention and special treatment needed	No data available				

Flammability	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		Flash
Point	Dry powder Dry sand	Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media arising from the substance or mixture	For this substance/mixture no limitations of extinguishing agents are given.	Special hazards
No data available	Hydrogen chloride gas Sodium oxides	Further information
Hazardous combustion products	Fire may cause the evolution of Sulphur oxides, nitrogen oxides.	Advice for firefighters
Fire may cause the evolution of Sulphur oxides, nitrogen oxides.	Protective Equipment	Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.	Specific Hazards Arising from the Chemical	
Oxides of phosphorus Sodium oxides	Not combustible. Fire may cause evolution of: Oxides of phosphorus	Ambient fire may liberate hazardous vapours.

Personal precautions, protective equipment and emergency procedures see section 8.	Avoid breathing vapors, mist or gas. For personal protection
Spillage	Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Methods and materials for containment and cleaning	Environmental Precaution
	Do not let product enter drains
	.Keep in suitable, closed containers for disposal.

Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
Precautions for safe handling	For precautions see section 2.2.
Storage conditions	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): 12: Non Combustible Liquids	Storage class
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	Observe label precautions. Change contaminated clothing. Wash hands after working with substance.
Requirements for storage	Keep in cool and store under shade.

Exposure controls	Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Control parameters	Ingredients with workplace control parameters	Contains no substances with occupational exposure limit values.
Engineering Control	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
Body Protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.	
Respiratory protection	Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
Other Protection	Measure	Handle in accordance with good industrial hygiene and safety practice.
Control of environmental exposure	Do not let product enter drains.	

Gloves

Suit

Physical state	Liquid	Colour	No data available	Odour	No data available	Odor Threshold	No
data available	pH	No data available	Melting Point	No data available	Boiling Point	No data available	
Flash Point	No data available	Evaporation Rate	Not Applicable	Flammability (solid, gas)	No data available		
Explosive limits	No Data Available	Upper/lower flammability or explosive limits			No data available	Autoignition	
temperature	No data available	Decomposition temperature	No data available	Vapour pressure	No data available		
Density	1,000 g/cm3	Relative Density			No data available		
Relative vapor density	No data available	Freezing point	No data available	Viscosity	No data available		
Partition coefficient	No data available	Explosive properties	No data available	Solubility	No data available		
Ignition temperature	No information available.	Particle characteristics	No data available				

Reactivity	No data available	Stability	Stable under recommended storage conditions.	Possibility of
hazardous reactions	No data available	Conditions to avoid	No data available	Incompatible materials
agents	Hazardous decomposition products	In the event of fire: see section 5		Strong oxidizing

Acute toxicity	Oral: No data available	Inhalation: No data available	Dermal: No data available	Skin corrosion/irritation
Remarks: No data available	Serious eye	damage/eye	irritation	Remarks: No data available
sensitization	No data available	Toxic Effects on	Human	May cause damage to the following organs: upper respiratory tract.
Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).				
Carcinogenicity	No data available	Germ cell	mutagenicity	No data available
available	Specific target organ toxicity - single	exposure	No data available	Reproductive toxicity
Humans	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.			No data
				Additional Information
				To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Bioaccumulative potential	No data available	Persistence and	degradability	Biodegradability Result: - Readily	
biodegradable.	Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 0,24 mg/l - 96 h		Toxicity to daphnia and other aquatic	
invertebrates	Flow-through test	EC50 - Ceriodaphnia dubia (water flea) - 0,035 mg/l - 48 h (OECD Test Guideline 202)			Toxicity to algae
Flow-through test NOEC - algae - 0,002 mg/l - 7 Days Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: sodium hypochlorite solution					
		Toxicity to bacteria	Static test EC50 - activated sludge - 563 mg/l - 3 h (OECD Test Guideline 209) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium hypochlorite solution		
Mobility in soil	No Information available	Results of PBT and vPvB 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.					
Endocrine disrupting	properties	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.			
	Other adverse effects	No data available			

Disposal methods	The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.			
Contaminated packaging	Dispose of as unused product.	Waste treatment	Method	Offer surplus and non-recyclable solutions to a licensed disposal company.

UN number	ADR/RID:	IMDG:	IATA:	UN proper shipping name	ADR/RID:	IMDG:	IATA:
Transport hazard class(es)	ADR/RID:	IMDG:	IATA:	Packaging group	ADR/RID:	IMDG:	IATA:
Environmental hazards	ADR/RID: NO	IMDG: NO	IATA: NO	Further information	No data available		

Inventory status Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65.

Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006. Listed substance / Sunset Date : After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate. Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Regulation (EC) No 850/2004 on persistent organic pollutants

Authorisations and/or restrictions on use REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : potassium chromate This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006. Listed substance / Sunset Date : potassium chromate / 21.09.2017 After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate. REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : potassium chromate

National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : ACUTE TOXIC : ENVIRONMENTAL HAZARDS Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. Chemical Safety Assessment For this product a chemical safety assessment was not carried out

Other Information

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