

Chloride Tablet Count

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

1.1 - Product identifier

Trade name/designation Chloride Tablet Count
Chemical name
Product-type Mixture
Product code TbsRCD
CAS No.

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

Relevant identified uses - Reagent for water analysis
Uses advised against - Other

1.3 - Details of the supplier of the safety data sheet

Water-I.D. GmbH
Daimlerstr. 20
76344 Eggenstein Germany
+49 (0) 721 - 78 20 29 - 0 Fax+49 (0) 721 - 78 20 29 - 11
EHS / Compliance: lab@water-id.com

1.4 - Emergency telephone number

- 毒物管理センター ミュンヘン
Tel: +49 (0) 89 / 19 24 0
ドイツ
24時間サービス
言語 ドイツ語, 英語
からもお電話ください。Japan

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1

2.2 - Label elements

Contains: potassium dichromate (CAS No.: 7778-50-9)

Signal word Warning

Hazard pictograms



Hazard statements

H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

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P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P301+P312	IF SWALLOWED: Call a POISON CENTER, a doctor if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P501	Dispose of contents, container to an appropriate recycling or disposal facility.

2.3 - Other hazards

Other hazards which do not result in classification

- May cause an allergic skin reaction.
- May damage fertility or the unborn child.
- May cause genetic defects.
- May cause cancer.
- Causes severe skin burns and eye damage.

SECTION 3: Composition / information on ingredients

- Not applicable

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
Microcrystalline Cellulose	CAS No. : 9004-34-6 Index No. : EC No. : 232-674-9	30 - 50		Not applicable
Starch	CAS No. : 9005-25-8 Index No. : EC No. : 232-679-6	30 - 50		Not applicable
silver nitrate	CAS No. : 7761-88-8 Index No. : 047-001-00-2 EC No. : 231-853-9	1 - 10		Not applicable
potassium chromate	CAS No. : 7789-00-6 Index No. : 024-006-00-8 EC No. : 232-140-5	1 - 10		Not applicable
Croscarmellose Sodium	CAS No. : 7811-65-7 Index No. : EC No. :	< 5		Not applicable
potassium dihydrogenorthophosphate	CAS No. : 7778-77-0 Index No. : EC No. : 231-913-4	< 5		Not applicable
potassium dichromate	CAS No. : 7778-50-9 Index No. : 024-002-00-6 EC No. : 231-906-6	< 1		Not applicable
Lithium hydroxide monohydrate	CAS No. : 1310-66-3 Index No. : EC No. : 215-183-4	< 1		Not applicable
silicon dioxide	CAS No. : 7631-86-9 Index No. : EC No. : 231-545-4	< 1		Not applicable
magnesium distearate	CAS No. : 557-04-0 Index No. : EC No. : 209-150-3	< 1		Not applicable

SECTION 4: First aid measures

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4.1 - Description of first aid measures

<u>Following inhalation</u>	<ul style="list-style-type: none">- No special measures are necessary.- Provide fresh air.
<u>Following skin contact</u>	<ul style="list-style-type: none">- Wash immediately with: Water- When in doubt or if symptoms are observed, get medical advice.
<u>After eye contact</u>	<ul style="list-style-type: none">- Rinse immediately carefully and thoroughly with eye-bath or water.- In case of eye irritation consult an ophthalmologist.
<u>After ingestion</u>	<ul style="list-style-type: none">- Seek medical advice immediately.- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.- Rinse mouth thoroughly with water.- Medical treatment necessary.- When in doubt or if symptoms are observed, get medical advice.

4.2 - Most important symptoms and effects, both acute and delayed

<u>Symptoms and effects - Following inhalation</u>	- No information available.
<u>Symptoms and effects - Following skin contact</u>	- No information available.
<u>Symptoms and effects - After eye contact</u>	- No information available.
<u>Symptoms and effects - After ingestion</u>	- No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. Antidotal dispensation.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	<ul style="list-style-type: none">- ABC-powder- Carbon dioxide (CO₂)- Foam- Extinguishing powder
<u>Unsuitable extinguishing media</u>	- Full water jet

5.2 - Special hazards arising from the substance or mixture

<u>Special hazards arising from the substance or mixture</u>	- No information available.
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5.3 - Advice for firefighters

- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Avoid dust formation.

For emergency responders

- No information available.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Ensure waste is collected and contained.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- Soak up inert absorbent and dispose as waste requiring special attention.

Methods and material for cleaning up

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Take up carefully when dry.
- Clear contaminated areas thoroughly.
- Clean contaminated articles and floor according to the environmental legislation.

Inappropriate techniques

- No information available.

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- After use replace the closing cap immediately.
- Avoid exposure - obtain special instructions before use.

Advices on general occupational hygiene

- Wash contaminated clothing prior to re-use.
- When using do not eat, drink, smoke, sniff.
- Thorough skin-cleansing after handling the product.
- Wash hands before breaks and after work.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Non-combustible substances of acute toxicity, category 1 and 2 / very toxic substances (solid)
- Do not store together with: Food and feedingstuffs

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

8.3 - Individual protection measures, such as personal protective equipment

- Tested protective gloves must be worn



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- Suitable protective clothing: lab coat



SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Tablets
<u>Colour</u>	brown	<u>Odour</u>	odourless
Odour threshold		No data available	
pH		7	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		20 %	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

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10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on toxicological effects

Acute toxicity - Acute toxicity (oral) - Category 4 - Harmful if swallowed

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No information available.

Toxicity : Substances

silver nitrate (7761-88-8)	
LD50 oral (rat)	1173 mg/kg
potassium chromate (7789-00-6)	
LD50 oral (rat)	168 mg/kg ECHA
LD50 dermal (rabbit)	2000 mg/kg
LC50 inhalation dusts and mists (rat)	83 mg/l < V < 99 mg/l ECHA 4h
potassium dichromate (7778-50-9)	
LD50 oral (rat)	67 mg/kg < V < 168 mg/kg ECHA
LD50 dermal (rabbit)	14 mg/kg
LC50 inhalation dusts and mists (rat)	83 mg/l < V < 99 mg/l ECHA 4h
Lithium hydroxide monohydrate (1310-66-3)	
LD50 oral (rat)	368 mg/kg
LC50 inhalation dusts and mists (rat)	> 6,15 mg/l 4h (OECD Guideline 403)

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<u>Skin corrosion/irritation</u>	- Not classified
<u>Serious eye damage/eye irritation</u>	- Not classified
<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Not classified
	- data lacking
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

silver nitrate (7761-88-8)	
EC50 48 hr crustacea	0,0067 mg/l
LC50 96 hr fish	0,0069 mg/l < V < 0,0082 mg/l
NOEC chronic fish	0,00037 mg/l
potassium chromate (7789-00-6)	
EC50 48 hr crustacea	15 mg/l Daphnia magna
LC50 96 hr fish	40 mg/l Pimephales promelas
ErC50 algae	0,26 mg/l 72h / Nitzschia sp.
potassium dichromate (7778-50-9)	
EC50 48 hr crustacea	0,035 mg/l Daphnia magna
LC50 96 hr fish	0,131 mg/l Lepomis macrochirus

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ErC50 algae	0,31 mg/l Pseudokrichneriella subcapitata 72h
NOEC chronic fish	6 mg/l Pimephales promelas 7d
NOEC chronic crustacea	0,016 mg/l < V < 0,064 mg/l Daphnia magna 7d
Lithium hydroxide monohydrate (1310-66-3)	
EC50 48 hr crustacea	33,5 mg/l Daphnia magna (OECD Guideline 202)
LC50 96 hr fish	109 mg/l Danio rerio (OECD Guideline 203)
ErC50 algae	41,62 mg/l Pseudokrichneriella subcapitata

- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.6 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- Waste requires special monitoring. - Collect the waste separately.

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- Send to a hazardous waste incinerator facility under observation of official regulations.
- The waste is to be kept separate from other types of waste until its disposal.

Community or national or regional provisions - No information available.

SECTION 14: Transport information

14.1 - UN number

UN number (ADR) : UN1759
UN number (RID) : UN1759
UN number (IMDG) : UN1759
UN number (IATA) : UN1759

14.2 - UN proper shipping name

UN proper shipping name (ADR) : CORROSIVE SOLID, N.O.S. (silver nitrate, potassium dichromate, Lithium hydroxide monohydrate)
UN proper shipping name (RID) : CORROSIVE SOLID, N.O.S. (silver nitrate, potassium dichromate, Lithium hydroxide monohydrate)
UN proper shipping name (IMDG) : CORROSIVE SOLID, N.O.S. (silver nitrate, potassium dichromate, Lithium hydroxide monohydrate)
UN proper shipping name (IATA) : CORROSIVE SOLID, N.O.S. (silver nitrate, potassium dichromate, Lithium hydroxide monohydrate)

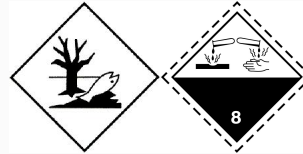
14.3 - Transport hazard class(es)

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ADR Transport hazard class(es) : 8

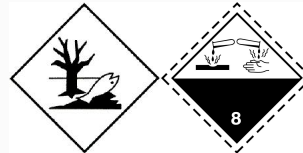
ADR Classification code: : C10

Pictograms



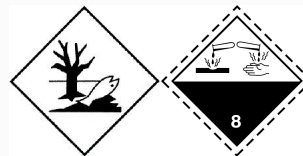
Transport hazard class(es) (RID) : 8

Pictograms



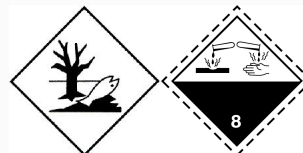
Transport hazard class(es) (IMDG) : 8

Pictograms



Transport hazard class(es) (IATA) : 8

Pictograms



14.4 - Packing group

Packing group : II

Packing group (RID) : II

Packing group (IMDG) : II

Packing group (IATA) : II

14.5 - Environmental hazards

Environmental hazards : Yes.

Marine pollutant : Hazardous to the aquatic environment - Aquatic Acute 1
Hazardous to the aquatic environment - Aquatic Chronic 1

14.6 - Special precautions for user

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ADR

<u>ADR Classification code:</u>	:	C10
<u>ADR Special provisions</u>	:	274
<u>ADR Limited quantity (LQ)</u>	:	1 kg
<u>ADR Excepted quantities</u>	:	E2
<u>ADR Packing instructions</u>	:	P002 IBC08
<u>ADR Special packing provisions</u>	:	B4
<u>ADR Mixed packing provisions</u>	:	MP10
<u>Instructions for portable tanks and bulk containers</u>	:	T3
<u>Special provisions for portable tanks and bulk containers</u>	:	TP33
<u>ADR tank code</u>	:	SGAN L4BN
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	AT
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>ADR Hazard identification number (Kemler No.)</u>	:	80

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	
<u>Packing instructions</u>	:	
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	
<u>Stowage and handling</u>	:	
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	

IATA

<u>PCA - Excepted quantities</u>	:	
<u>PCA - Limited Quantity - Packing Instructions</u>	:	
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	
<u>PCA - Packing Instructions</u>	:	
<u>PCA - Maximum Net Quantity per Package</u>	:	
<u>CAO - Packing Instructions</u>	:	
<u>CAO - Maximum Net Quantity per Package</u>	:	
<u>Special Provisions</u>	:	
<u>ERG Code</u>	:	

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14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

VOC content No data available

- Substance/product listed in the following inventories:

Community safety, health and environmental provisions, national laws Existing Chemical Substances (ISHA) (CAS No. : 9004-34-6).
Existing Chemical Substances (CSCL) (CAS No. : 9005-25-8, CAS No. : 7761-88-8, CAS No. : 7789-00-6, CAS No. : 7778-77-0, CAS No. : 7778-50-9, CAS No. : 7631-86-9, CAS No. : 557-04-0).
Chemical Substances exempted from notification of manufacturing/import amount (CSCL) (CAS No. : 9005-25-8, CAS No. : 7778-77-0, CAS No. : 7631-86-9).
Biodegradation and Bioconcentration Results (METI) (CAS No. : 7761-88-8).
Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (CAS No. : 7761-88-8, CAS No. : 7789-00-6, CAS No. : 7778-50-9).
Chemical Substances Requiring Labeling and Delivery of Documents (ISHA) (CAS No. : 7761-88-8, CAS No. : 7789-00-6, CAS No. : 7778-50-9, CAS No. : 1310-66-3, CAS No. : 7631-86-9, CAS No. : 557-04-0).
Dangerous Substances (ISHA) (CAS No. : 7761-88-8).
Japan Poisonous and Deleterious Substances Control Act (CAS No. : 7761-88-8, CAS No. : 7778-50-9, CAS No. : 1310-66-3).
Japan Air Pollution Control Law (CAS No. : 7761-88-8, CAS No. : 7778-50-9).
Japan Water Pollution Control Law (CAS No. : 7761-88-8, CAS No. : 7778-50-9).
Specified Chemical Substances (ISHA) (CAS No. : 7789-00-6, CAS No. : 7778-50-9).
Administrative Control Levels of Working Environment Evaluation Standards (ISHA) (CAS No. : 7789-00-6, CAS No. : 7778-50-9).
Japan Soil Contamination Countermeasures Act (CAS No. : 7789-00-6, CAS No. : 7778-50-9).
Chemical Substances not regarded as a New Chemical Substances (CSCL) (CAS No. : 1310-66-3).

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Description of the amendments
1	21.04.2020	Creation

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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