



CDR S.r.l.  
Via degli Artigiani, 6  
50020 Ginestra F.na (FI)

MATERIAL SAFETY DATA SHEET

**CHLORIDE TEST KIT ON MILK/CHEESE**

Revision: 1  
of 28/06/12

Date of compilation: 26/04/10

In accordance with EC Directive 1907/06 and Regulation (EU) 453/2010

**1. Identification of the substance/mixture and of the company/enterprise**

1.1 Product identifier: **CHLORIDE R1**

1.2 Relevant identified uses of the substance or mixture:  
*Reagent for food analysis*

1.3 Details of the supplier of the safety data sheet:

**CDR S.r.l.**  
**Via degli Artigiani, 6**  
**50020 Ginestra F.na (FI)**  
**Italy**  
Tel: +39 055-871431  
Fax: +39 055-8714322

1.4 Emergency phone number:  
**+39 055-871431**

e-mail TC: [cdr@cdr-mediated.it](mailto:cdr@cdr-mediated.it)

**2. Hazards identification**

2.1 Classification of the substance or mixture

**Classification according to Directives 67/548/EEC – 1999/45/EC:**

This mixture is not dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments.

**Nature of special risks attributed:** none

2.2. Label elements:

**Warning symbols:** none

**Hazard sentences (R):** none

**Caution recommendations (S):** none

2.3 Other hazards:

none information

**3. Composition/Information on ingredients**

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Product: **CHLORIDE TEST KIT ON MILK/CHEESE**

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Chemical composition: this mixture doesn't contain dangerous substances under 67/548/EEC and 1999/45/EC directives and subsequent amendments in concentration that must be declared in this section.

**4. First-aid measures**

*4.1 Description of first aid measures*

Inhalation

Remove to fresh air. If breathing is irregular seek medical advice.

Skin contact

Remove contaminated clothing. Wash immediately with plenty of water and soap. In case of irritation, seek medical attention.

Eyes contact

Irrigate copiously with clean, fresh water for at least 15 minutes. In case of necessity, seek medical advice.

Ingestion.

Rinse mouth with water immediately. Obtain medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person and if it is not indicated by the doctor.

Other

Change contaminated clothing.

*4.2. Most important symptoms and effects, both acute and delayed*

not available

*4.3. Indication of any immediate medical attention and special treatment needed*

not available

**5. Fire-fighting measures**

*5.1 Extinguishing media*

*Advised extinguishing agents:*

CO<sub>2</sub>, nebulized water, foam, chemical powder

*Unappropriate extinction methods:*

none

*5.2. Special hazards arising from the substance or mixture*

The product under fire condition may develop irritant/toxic gas

*5.3. Advice for firefighters*

Wear the fire equipment all the time. Water used in fire-fighting has to be disposed following Local regulation.

**6. Accidental release measures**

*6.1. Personal precautions, protective equipment and emergency procedures*

Avoid contact with skin and eyes. In case of vapours use an adequate respiratory protection.

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Supply a good air circulation. Move away any unauthorised person.

**6.2. Environmental precautions**

Prevent contamination of surface water, soil and dispersion in the air with suitable means of containment.

**6.3. Methods and material for containment and cleaning up**

Cover the spillage with inert absorbent material. Collect as far as possible the resulting mass and discard the remainder by spraying water.

**6.4 Reference to other sections**

Refer to paragraphs 8 and 13 for more information.

**7. Handling and storage**

**7.1. Precautions for safe handling**

Follow the good industrial hygiene and safety procedures. Do not smoke, eat or drink during the working processes. Supply good air circulation in working area.

**7.2. Conditions for safe storage, including any incompatibilities**

Store the packaging closed in a fresh and ventilated area, far from sources of ignition. Store at temperature between 15-25° C.

**7.3. Specific end use(s)**

For particular uses of the product, is necessary to refer to the specific information or contact the technical service of the Company.

**8. Exposure controls/personal protection**

**8.1. Control parameters**

none information

**8.2 Exposure controls**

Avoid all unnecessary exposure, handle in accordance with good industrial hygiene and safety procedures. Avoid dust inhalation. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

**Individual protection**

The DPI's choice must be done on the basis of the test's results obtained according to the rule EN 374

Hand protection:	: protective gloves
Eye protection	: protective goggles
Skin protection	: suitable protective clothing
Respiratory protection	: mask with filter in case of vapours formation .

**9. Physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	liquid	
Odour	characteristic	
Odour threshold	not available	

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Product: **CHLORIDE TEST KIT ON MILK/CHEESE**

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pH	about 2
Melting point/freezing point	not available
Initial boiling point and boiling range	not available
Flash point	not available
Evaporation rate	not available
Flammability (solid, gas)	not pertinent
Upper/lower flammability or explosive limits	not pertinent
Vapour pressure	not available
Vapour density	not available
Relative density	not available
Solubility	soluble in water
Water solubility	soluble
Partition coefficient: n-octanol/water	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
Viscosity	not available
Explosive properties	not explosive
Oxidising properties	not oxidising

9.2. Other information

VOC (Directive 1999/13/CE): -%

**10. Stability and reactivity**

10.1. Reactivity

In contact with strong oxidants exothermal reaction may occur.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

no data available

10.5. Incompatible materials

no data available

10.6. Hazardous decomposition products

Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health

**11. Toxicological information**

11.1. Information on toxicological effects

Acute effects:

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices.

This preparate may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

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Corrosive/irritation power:

Eyes: not irritant

Skin: not irritant

**12. Ecological information**

*12.1. Toxicity:*

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

*12.2. Persistence and degradability:* not available

*12.3. Bioaccumulative potential:* not available

*12.4. Mobility in soil:* not available

*12.5. Results of PBT and vPvB assessment:* not available

*12.6. Other adverse effects:* not available

*This product doesn't contain AOX*

**13. Disposal considerations**

Operate following the current Local or National Laws.

The non reclaimed containers have to be disposed as the product.

Consider the possibility of burning the product in a suitable incinerator.

**14. Transport information**

The product is not classified dangerous under transport regulation.

**15. Regulatory information**

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

Regulation	Cas	Substance
428/2009 ex CE 1334/2000 Ann.1	-	-
273/04 Tab.1 Cat.1	-	-
273/04 Tab.1 Cat.2	-	-
273/04 Tab.1 Cat.3	-	-
1907/2006 Ann. XIV	-	-
1907/2006 (Substances SVHC)	-	-
552/2009 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
276/2010 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
238/05 (Seveso ter) Ann.1 part 1	-	-
238/05 (Seveso ter) Ann.1 part 2	-	-

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15.2. Chemical safety assessment

none

<b>16. Further information</b>
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**Description of the sentences of risk set out in paragraph 3**

N.A.

**Description of the safety advice (R) exposed to point 3:**

N.A.

*Classification based on data of all components of the mixture*

**GENERAL BIBLIOGRAPHY:**

1. Directive 1999/45/EC as amended
2. Directive 67/548/EEC and its amendments and adjustments (technical adjustment XXIX)
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790 / 2009
6. Regulation (EU) 453/2010
7. The Merck Index. Ed 10
8. Handling Chemical Safety
9. NIOSH - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique
11. Patty - Industrial Hygiene and Toxicology
12. NI Sax - Dangerous Properties of Industrial Materials-7, 1989 Edition

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations.

The producer is relieved from any liability arising from improper uses.

This sheet cancels and substitutes any previous edition.

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Product: **CHLORIDE TEST KIT ON MILK/CHEESE**

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**1. Identification of the substance/mixture and of the company/enterprise**

1.1 Product identifier: **CHLORIDE R2**

1.2 Relevant identified uses of the substance or mixture:

*Reagent for food analysis*

1.3 Details of the supplier of the safety data sheet:

**CDR S.r.l.**

**Via degli Artigiani, 6**

**50020 Ginestra F.na (FI)**

**Italy**

Tel: +39 055-871431

Fax: +39 055-8714322

1.4 Emergency phone number:

**+39 055-871431**

e-mail TC: [cdr@cdr-mediated.it](mailto:cdr@cdr-mediated.it)

**2. Hazards identification**

2.1 Classification of the substance or mixture

**Classification according to Directives 67/548/EEC – 1999/45/EC:**

C R34

**Nature of special risks attributed:**

R34 - Causes burns.

2.2. Label elements:

**Warning symbols:**

C - Corrosive



**Hazard sentences (R):**

R34 - Causes burns.

**Caution recommendations (S):**

S17 - Keep away from combustible material.

S25 - Avoid contact with eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 - This material and its container must be disposed of as hazardous waste.

S64 - If swallowed, rinse mouth with water (only if the person is conscious).

2.3 Other hazards:

**ATTENTION: The product has this classification due to the acid pH.**

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**3. Composition/Information on ingredients**

Chemical composition:

Name	Concentration (C)		Classification			
			Directive 67/548/CEE		Directive 67/ 548/CEE	
iron trinitrate nonahydrate	14 <= C < 18	O	R8	Ox Sol 3	H272	
CAS 7782-61-8			R36/37/38	Eye Irrit. 2	H319	
CE No 233-899-5				STOT SE 3	H335	
				Skin Irrit. 2	H315	

The full text of hazard statements and risk phrases (R) is specified in section 16.

**4. First-aid measures**

*4.1 Description of first aid measures*

Inhalation

Remove to fresh air. Seek immediately medical advice.

Skin contact

Wash immediately with plenty of water and soap. Remove contaminated clothing, seek medical attention. Wash contaminated clothing before using them.

Eyes contact

Irrigate copiously with clean, fresh water for at least 15 minutes, keeping opened eyes. Consult eye specialist immediately.

Ingestion

Wash mouth with water. Obtain immediate medical attention. Don't induce vomiting. Never give anything by mouth to an unconscious person.

Other

Change contaminated clothing.

*4.2. Most important symptoms and effects, both acute and delayed*  
not available

*4.3. Indication of any immediate medical attention and special treatment needed*

In case of inhalation: if breathing is difficult, call a doctor immediately.

In case of skin contact: medical emergency.

In case of contact with eyes: medical emergency.

In ingestion: emergency transport to hospital.

**5. Fire-fighting measures**

*5.1 Extinguishing media*

*Advised extinguishing agents:*

CO<sub>2</sub>, nebulized water, foam, chemical powder

*Unappropriate extinction methods:*

none



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*5.2. Special hazards arising from the substance or mixture*

The product under fire condition may develop irritant/toxic gas (NO<sub>x</sub>, FeO<sub>x</sub>).

*5.3. Advice for firefighters*

Wear the fire equipment all the time. Water used in fire-fighting has to be disposed following Local regulation.

**6. Accidental release measures**

*6.1. Personal precautions, protective equipment and emergency procedures*

Avoid contact with eyes and skin. Use an adequate respiratory protection if there are vapours. Supply good air circulation. Move away any unauthorised person. Eliminate or exclude any source of ignition.

*6.2. Environmental precautions*

Collect the product in suitable container for disposal. Notify authorities if product enters sewer or public waters.

*6.3. Methods and material for containment and cleaning up*

Cover the spillage with inert absorbent material. Collect as far as possible the resulting mass mechanically. Place contaminated material into suitable containers and send them to the waste disposal. Eliminate the residue using jets of water if there are no adverse advices.

*6.4 Reference to other sections*

Refer to paragraphs 8 and 13 for more information.

**7. Handling and storage**

*7.1. Precautions for safe handling*

Follow the good industrial hygiene and safety procedures. Avoid the inhalation of vapours and the contact with skin and eyes. Near workplaces supply emergency showers and eyewash fountains. Use suitable material for the product.

*7.2. Conditions for safe storage, including any incompatibilities*

Store the packaging closed in a fresh and ventilated area, far from sources of ignition. Store at temperature between 15-25° C.

*7.3. Specific end use(s)*

For particular uses of the product, is necessary to refer to the specific information or contact the technical service of the Company

**8. Exposure controls/personal protection**

*8.1. Control parameters*

none

*8.2 Exposure controls*

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures . Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and take the shower at the end of the work shift. Keep a eyewasher fountain near the workplace and a fumes hoods.

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**8.3 Individual protection**

The DPI's choice must be done on the basis of the test's results obtained according to the rule EN 374

Hand protection: : protective gloves  
Eye protection : protective goggles  
Skin protection : suitable protective clothing  
Respiratory protection : mask with filter for acid vapours

**9. Physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	liquid	
Odour	characteristic	
Odour threshold	not available	
pH	1-1,5	
Melting point/freezing point	not available	
Initial boiling point and boiling range	not available	
Flash point	not available	
Evaporation rate	not available	
Flammability (solid, gas)	not pertinent	
Upper/lower flammability or explosive limits	not pertinent	
Vapour pressure	not available	
Vapour density	not available	
Relative density	not available	
Solubility	soluble in water	
Water solubility	soluble	
Partition coefficient: n-octanol/water	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	not explosive	
Oxidising properties	not oxidising	

**9.2. Other information**

VOC (Directive 1999/13/CE): -%

**10. Stability and reactivity**

**10.1. Reactivity**

In contact with strong oxidants exothermal reaction may occur.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

no data available

**10.4. Conditions to avoid**

no data available

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Product: **CHLORIDE TEST KIT ON MILK/CHEESE**

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*10.5. Incompatible materials*

Avoid contact with organic materials and powder metals

*10.6. Hazardous decomposition products*

Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health (NO<sub>x</sub>, FeO<sub>x</sub>).

**11. Toxicological information**

*11.1. Information on toxicological effects*

Acute effects:

The product is corrosive and, if brought into contact with skin, causes burns, destroying the whole thickness of skin tissue.

**Iron nitrate nonahydrate:**

LD50: 3250 mg/kg (oral, rat)

Corrosive/irritation power:

Eyes: corrosive

Skin: corrosive

**12. Ecological information**

*12.1. Toxicity:*

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

*12.2. Persistence and degradability:* not available

*12.3. Bioaccumulative potential:* not available

*12.4. Mobility in soil:* not available

*12.5. Results of PBT and vPvB assessment:* not available

*12.6. Other adverse effects:* not available

*This product doesn't contain AOX*

**13. Disposal considerations**

Operate following the current Local or National Laws.

The non reclaimed containers have to be disposed as the product.

Consider the possibility of burning the product in a suitable incinerator.

**14. Transport information**

These goods must be packed in their original packings or in packings made of materials resistant to their content and not reacting dangerously with it. This good, being shipped under the provision for limited quantity, is packed and labelled in accordance with ADR Regulation –chapter 3.4- IMDG Code –chapter 3.4- IATA regulation – chapter 5.0.3- (i.e. 0.5

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l for inner packaging max. and 1 l for outer packaging max.) and no other provision has to be respected.

**Road or railway transport:**

UN number: 3264                      Class: 8  
Classification: C1                      Packing group: III  
Tunnel restriction code : (E)

**Transport by sea:**

UN number: 3264                      Class: 8  
Packaging group: III                      EmS: F-A, S-B  
Marine pollutant: not

**Transport by air:**

Class: 8                      Packaging group: III

**Shipping name:**                      **CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (CONTAINS IRON NITRATE NONAHYDRATE):**

**Labelling**



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**15. Regulatory information**

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

Regulation	Cas	Substance
428/2009 ex CE 1334/2000 Ann.1	-	-
273/04 Tab.1 Cat.1	-	-
273/04 Tab.1 Cat.2	-	-
273/04 Tab.1 Cat.3	-	-
1907/2006 Ann. XIV	-	-
1907/2006 (Substances SVHC)	-	-
552/2009 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
276/2010 (amending Reg. CE 1907/2006 as regards Ann. XVII)	-	-
238/05 (Seveso ter) Ann.1 part 1	-	-
238/05 (Seveso ter) Ann.1 part 2	-	-

*15.2. Chemical safety assessment*

none

**16. Further information**

**Description of the sentences of risk set out in paragraph 3**

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

H272 = May intensify fire; oxidiser.

**Description of the safety advice (R) exposed to point 3:**

R8 = Contact with combustible material may cause fire.

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Product: **CHLORIDE TEST KIT ON MILK/CHEESE**

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R36/37/38 = Irritating to eyes, respiratory system and skin.

*Classification based on data of all components of the mixture*

**GENERAL BIBLIOGRAPHY:**

1. Directive 1999/45/EC as amended
2. Directive 67/548/EEC and its amendments and adjustments (technical adjustment XXIX)
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790 / 2009
6. Regulation (EU) 453/2010
7. The Merck Index. Ed 10
8. Handling Chemical Safety
9. NIOSH - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique
11. Patty - Industrial Hygiene and Toxicology
12. NI Sax - Dangerous Properties of Industrial Materials-7, 1989 Edition

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This sheet cancels and substitutes any previous edition.