

Chloride R1, R1L

Date 27.5.2008

Previous date: -

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the substance or preparation****1.1.1 Commercial Product Name**

Chloride R1, R1L

1.1.2 Product code

984642, 984643

1.2 Use of the Substance/Preparation**1.2.1 Expressed in writing**

For general laboratory purposes.

1.3 Company/undertaking identification**1.3.1 Supplier**

Thermo Fisher Scientific Oy, Clinical Diagnostics Finland

1.3.2 Contact information:

Ratastie 2, P.O.Box 100
 FI-01621 Vantaa
 FINLAND
 +358-9-329 100
 +358-9-3291 0300
 FI09215470

2. HAZARDS IDENTIFICATION

Toxic.

Harmful by inhalation, in contact with skin and if swallowed.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Danger of cumulative effects.

Flammable.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Hazardous components**

3.1.1 CAS/EC and Reg.number	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
67-56-1	Methanol	14.9 %	F; R11;T; R20/21/22-39/23/24/25
7782-61-8	Iron (III) nitrate	2.8 %	Xn; R20/22-36/37/38;O; R8
592-85-8	Mercury dithiocyanate	0.08 %	T+; R26/27/28-33;N; R50/53

4. FIRST AID MEASURES**4.1 Additional advice**

Symptoms of poisoning may only appear several hours later. Medical supervision for minimum 48 hours.

4.2 Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately if symptoms occur. Keep patient warm and at rest.

4.4 Eye contact

Immediately flush eye(s) with plenty of water.

4.5 Ingestion

Call a physician immediately.

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5. FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media**
Carbon dioxide (CO₂), Foam, Water
- 5.4 Special protective equipment for firefighters**
Respiratory protection

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions**
Use personal protective equipment.
- 6.2 Environmental precautions**
Flush with plenty of water. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods for cleaning up**
Soak up with inert absorbent material and dispose of as hazardous waste.

7. HANDLING AND STORAGE

- 7.1 Handling**
Provide adequate ventilation.
- 7.2 Storage**
Keep away from combustible material. Do not smoke.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Exposure Limit Values****8.1.1 Threshold limits**

67-56-1	Methanol	200 ppm (8 h)	250 ppm (15 min)
		270 mg/m ³ (8 h)	330 mg/m ³ (15 min)
		skin	
592-85-8	Mercury dithiocyanate	0.05 mg/m ³ (8 h)	
		skin, Hg	

8.2 Exposure controls**8.2.1 Occupational exposure controls**

Wear protective gloves. Avoid contact with the skin and the eyes.

8.2.1.1 Respiratory protection

Breathing apparatus with filter.

8.2.1.2 Hand protection

Impervious gloves

8.2.1.3 Eye protection

Goggles

8.2.1.4 Skin and body protection

Lab coat

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 General Information (appearance, odour)**

liquid

9.2 Important Health Safety and Environmental Information**9.2.2 Boiling point/range**

100 °C

9.2.4 Flammability (solid, gas)

not auto-flammable

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9.2.5	Explosive properties	
9.2.5.1	Lower explosion limit	5.5 v-%
9.2.5.2	Upper explosion limit	44.0 v-%
9.2.7	Vapour pressure	128.0 hPa
9.2.8	Relative density	0.98 g/cm ³
9.2.9	Solubility	
9.2.9.1	Water solubility	completely soluble

10. STABILITY AND REACTIVITY

10.3	Hazardous decomposition products	
	No hazardous decomposition products are known.	

11. TOXICOLOGICAL INFORMATION

11.1	Acute toxicity	
	Methanol:	
	LD50/oral/rat = 13000 mg/kg	
11.3	Sensitisation	
	No sensitization responses were observed.	

12. ECOLOGICAL INFORMATION

12.1	Ecotoxicity	
12.1.1	Aquatic toxicity	
	slightly water endangering	

13. DISPOSAL CONSIDERATIONS

The product has to be disposed of as laboratory chemical in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1	UN-No	UN 1987
14.2	Packaging group	III
14.3	Land transport	
14.3.1	Class	3
14.3.3	Description of the goods	Alcohol, N.O.S. (Methyl Alcohol Solution)
14.4	Sea transport	
14.4.1	IMDG	3/III UN 1987
14.4.2	Proper shipping name	Alcohol, N.O.S. (Methyl Alcohol Solution)
	Packaging group	III
14.5	Air transport	
14.5.1	ICAO/IATA	3 UN 1987
14.5.2	Proper shipping name	Alcohol, N.O.S. (Methyl Alcohol Solution)

15. REGULATORY INFORMATION

15.1	Information on the warning label	
15.1.1	Letter code of the warning symbol and indications of danger for the preparation	
	T	Toxic

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15.1.2 Names of the ingredients given on the warning label

Methanol
Mercury dithiocyanate

15.1.3 R-phrases(s)

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R10 Flammable.

15.1.4 S-phrases(s)

S7 Keep container tightly closed.
S9 Keep container in a well-ventilated place.
S17 Keep away from combustible material.
S36 Wear suitable protective clothing.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION**16.1 List of relevant R phrases**

R11 Highly flammable.
R20/22 Harmful by inhalation and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R8 Contact with combustible material may cause fire.
R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R10 Flammable.

16.4 Additional information available from:

Code of the Material Safety Data Sheet: D06706-01-MSDS-Chloride R1-EN
Corporation mentioned in point 1.3.

The information in this datasheet is to our best knowledge correct and complete, and is offered in good faith as accurate. It characterizes the product with regard to the appropriate safety precautions. It does not guarantee properties of the product.

16.5 Literary reference

The MSDS of the manufacturer.

This product has been evaluated in accordance with the directives 1967/548/EEC, 1999/45/EC and 2001/58/EC.
IATA Dangerous Goods Regulations

27.05.2008

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