



Revision: 26 May 2015

SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

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

1.1 Product identifier

- Product Name: CHLORIDE INDICATOR MBC1X2
- Product Part Number: 777050

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

- Use of the substance/mixture:
- Reagent

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
-
- Telephone: Telephone: +31 4877 777 Fax: +31 4877 888
-
- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
-
-
- Other suppliers SEE SECTION 16!!!
- For quotations contact your local Customer Services
-
- Responsible Person: Product HSE Manager
- Telephone: +31 10 4877775
- Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

- ****ONLY TO BE USED IN CASE OF AN INCIDENT****
-
- International 24hrs Emergency NCEC:+ 44 1865 407333
- American 24hrs Emergency CHEMTREC (800) 424 9300
- American Chemistry Council 24hrs +1 703 527 3887
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998
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- The Netherlands: National Poisons Information Centre + 31 30 274 88 88

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

SECTION 2 Hazards identification (....)

- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Muta. 1B
- Carc. 1B
- Aquatic Chronic 3
- Skin Sens. 1
-
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- May cause sensitisation by skin contact (R43)
- May cause heritable genetic damage (R46)
- May cause cancer by inhalation (R49)
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53)

2.2 Label elements



- Signal Word: Danger
-
- Contains:
- potassium chromate
-
- Hazard phrases
 - May cause an allergic skin reaction (H317).
 - May cause genetic defects (H340).
 - May cause cancer by inhalation (H350)
 - Harmful to aquatic life with long lasting effects (H412).
- Precautionary Phrases
 - Do not handle until all safety precautions have been read and understood (P202).
 - Contaminated work clothing should not be allowed out of the workplace (P272).
 - Avoid release to the environment (P273).
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - Use personal protective equipment as required (P281).
 - IF exposed or concerned: Get medical advice/attention (P308+P313).
 - Specific treatment (see (P321)

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- *****SUBSTANCES OF VERY HIGH CONCERN (SVHC) ACCORDING TO REACH, ARTICLE 57***: potassium chromate**
- Odour: Odourless
- Appearance: Liquid, yellow

SECTION 3 Composition/information on ingredients

3.1 Mixtures

SECTION 3 Composition/information on ingredients (....)

- potassium chromate
 - Concentration: 1-3%
 - CAS Number: 7789-00-6
 - EC Number: 232-140-5
 - Symbols: GHS08,GHS07,GHS09, T, N
 - R/H Phrases: H350i,H340,H319,H335,H315,H317,H400,H410,
R49,R46,R36/37/38,R43,R50/53
 - Categories: Carc. 1B Muta. 1B Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Skin Sens. 1 Aquatic
Acute 1 Aquatic Chronic 1
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
- When in doubt or symptoms persist, seek medical attention
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- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- Get immediate medical advice/attention (P315).
-
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician (P301+P310).
- Give 200-300mls (half pint) water to drink
- If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P341).
- If heartbeat is absent, give external cardiac compression
-
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P341).
- If heartbeat is absent, give external cardiac compression
- If breathing is difficult, oxygen should be given by a trained person
- IF exposed or concerned: Get medical advice/attention (P308+P313).

4.2 Most important symptoms and effects, both acute and delayed

- Possible redness and irritation of affected areas
- May cause pain
- Can cause damage to the eyes
- The ingestion of significant quantities may cause dry throat
- In cases of severe exposure, irritation may develop
- May cause nausea/vomiting
- May cause shortness of breath
- May cause burning sensation
- In cases of severe exposure, unconsciousness may develop

4.3 Indication of any immediate medical attention and special treatment needed

- No information available

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic

5.3 Advice for firefighters

- Smoke from fires is toxic. Take precautions to protect personnel from exposure
 - Wear chemical protection suit and positive-pressure breathing apparatus
-

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Shut off source of leak if safe to do so
- Wash thoroughly after dealing with spillage

6.2 Environmental Precautions

- Avoid release to the environment (P273).

6.3 Methods and material for containment and cleaning up

- Absorb spillage in earth or sand
- Place in appropriate container
- Seal containers and label them
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- None
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Do not get in eyes, on skin, or on clothing (P262).
- Do not breathe dust/fume/gas/mist/vapours/spray (P260).
- Eyewash bottles should be available
- Ensure adequate ventilation

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Opened containers should be carefully resealed and stored in an upright position

7.3 Specific end use(s)

- Restricted to professional users
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Potassium Chromate
TLV (TWA) 0,05 mg/m³ ()

8.2 Exposure controls

SECTION 8 Exposure controls/personal protection (....)

- Engineering controls should be provided to prevent the need for ventilation
- 8.3 Occupational exposure controls



- In case of inadequate ventilation wear respiratory protection (P285).
 - Where an air-purifying respirator is suitable, use EN143 type P-S or EN149 type FFP-S
 - Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
-

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, yellow, miscible with water
- Boiling point >35 °F to >93 °F

9.2 Other information

- No information available
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SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.3 Incompatible materials

- Incompatible with alkalis (strong bases)

10.4 Conditions to avoid

- Avoid overheating
- Keep away from naked flames, incandescent or hot surfaces

10.5 Hazardous Decomposition Products

- Decomposition products may include toxic fumes
-

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, mouse) 180 mg/kg
 - Inhalation
 - May cause shortness of breath
 - In cases of severe exposure, burning sensation may develop
 - May cause unconsciousness
 - Contact with skin
 - May cause redness and irritation
 - May cause pain
 - Can be absorbed through skin
-

SECTION 11 Toxicological information (....)

- Contact with eyes
 - May cause severe irritation
 - Severe lachrymatory effects (makes eyes water)
- Ingestion
 - In cases of severe exposure, dry throat may develop
 - May cause nausea/vomiting
 - May cause unconsciousness
- Carcinogenicity
 - Category 2 Carcinogen
 - Carc. 1B
- Teratogenicity
 - No evidence of reproductive effects
- Mutagenicity
 - Category 2 Mutagen
 - Muta. 1B

11.2 Contact with eyes

- May cause severe irritation
- Severe lachrymatory effects (makes eyes water)

11.3 Contact with skin

- May cause redness and irritation
- May cause pain
- Can be absorbed through skin

11.4 Ingestion

- In cases of severe exposure, dry throat may develop
- May cause nausea/vomiting
- May cause unconsciousness

11.5 Inhalation

- May cause shortness of breath
 - In cases of severe exposure, burning sensation may develop
 - May cause unconsciousness
-

SECTION 12 Ecological information

12.1 Toxicity

- Potassium chromate: LC50 45.6 mg/l/96h (Pimephales promelas)
- Aquatic Chronic 2
- This product contains components which are classified in the EU as dangerous for the environment.
- Toxic to aquatic life with long lasting effects (H411).

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

SECTION 12 Ecological information (....)

- Completely soluble in water
- 12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- 12.6 Other Adverse Effects
- No environmental problems are expected when the product is used / handled correctly. In its intended use, the product will not be released into the environment.
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SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
- Disposal should be in accordance with local, state or national legislation
 - Dispose of contents/container to an authorised waste collection point (P501)
- 13.2 Classification
- EU Waste class: 16-05-06
-

SECTION 14 Transport information



- 14.1 UN
- UN No.: UN3287
 - Proper Shipping Name: TOXIC LIQUID, INORGANIC, N.O.S.
N.O.S.(POTASSIUM CHROMATE)
 - Hazard Class: 6.1
 - Packing Group: III
- 14.2 Environmental hazards
- Marine pollutant
- 14.3 Special precautions for user
- When supplied as part of a kit: The kit may be transported under classification UN3316
CHEMICAL KIT
- 14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not applicable
- 14.5 Road/Rail (ADR/RID)
- ADR UN No.: UN3287
 - Proper Shipping Name: TOXIC LIQUID, INORGANIC, N.O.S.
N.O.S.(POTASSIUM CHROMATE)
 - ADR Hazard Class: 6.1
 - ADR subrisk: -
 - ADR Packing Group: III
- 14.6 Sea (IMDG)
- IMDG UN No.: UN3287
 - Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.(POTASSIUM CHROMATE)

SECTION 14 Transport information (....)

- IMDG Hazard Class: 6.1
- IMDG subrisk: -
- IMDG Pack Group.: III
- IMDG EmS: F-A, S-F

14.7 Air (ICAO/IATA)

- ICAO UN No.: UN3287
- Proper Shipping Name: TOXIC LIQUID, INORGANIC, N.O.S.
N.O.S.(POTASSIUM CHROMATE)
- ICAO Packing Group: III
- ICAO Hazard Class: 6.1
- ICAO subrisk: -

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN3287
 - DOT Proper Shipping Name: TOXIC LIQUID, INORGANIC, N.O.S.
N.O.S.(POTASSIUM CHROMATE)
 - DOT Labels: 6.1
 - Product RQ (lbs): -
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SECTION 15 Regulatory information

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

- ***SUBSTANCES OF VERY HIGH CONCERN (SVHC) ACCORDING TO REACH, ARTICLE 57***: Potassium Chromate
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.

15.2 Chemical Safety Assessment

- None
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H340: May cause genetic defects. H350i: May cause cancer by inhalation. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. R36/37/38: Irritating to eyes, respiratory system and skin. R43: May cause sensitisation by skin contact. R46: May cause heritable genetic damage. R49: May cause cancer by inhalation. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

SECTION 16 Other information (....)

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

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