



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

SAFETY DATA SHEET

Water Analysis Test Kit

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

1.1 Product identifier

Product name : Water Analysis Test Kit
Product code : 38983
Product description : Not available.
Product type : Liquid.

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

Restricted to professional users.

Material uses : Analytical reagent.

1.3 Details of the supplier of the safety data sheet

Supplier : Fernox
2 Genesis Business Park
Albert Drive
Sheerwater
Woking GU21 5RW

Information contact : +44 (0) 330 100 7750
+44 (0) 330 100 7751
europeanregulatory@macdermid.com

1.4 Emergency telephone number

Supplier

Telephone number : +44 (0) 330 100 7750
Hours of operation : 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

STOT SE 3, H335
STOT RE 2, H373
Aquatic Chronic 3, H412

Ingredients of unknown toxicity :

Ingredients of unknown ecotoxicity :

Date of issue/Date of revision : 30.11.2016

A MacDermid Performance Solutions Business
A Platform Specialty Products Company



SECTION 2: Hazards identification

Classification according to Directive 1999/45/EC [DPD]

Europe

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

- Classification** : Xn; R20/21/22
R33
R52/53
- Human health hazards** : Harmful by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.
- Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Use only outdoors or in a well-ventilated area. Avoid release to the environment.
Do not breathe vapour.

Response

: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: Inorganic compounds of mercury

Supplemental label elements

: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.



SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Europe Inorganic compounds of mercury	EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6	≥0.3 - <1	T+; R26/27/28 R33 N; R50/53 See Section 16 for the full text of the R-phrases declared above.	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	[1] [2]
Austria Inorganic compounds of mercury	EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6	≥0.3 - <1	T+; R26/27/28 R33 N; R50/53	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
Belgium Inorganic compounds of mercury	EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6	≥0.3 - <1	T+; R26/27/28 R33 N; R50/53	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
Bulgaria Inorganic compounds of mercury	EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6	≥0.3 - <1	T+; R26/27/28 R33 N; R50/53	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
Croatia Inorganic compounds of mercury	EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6	≥0.3 - <1	T+; R26/27/28 R33 N; R50/53	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
Czech Republic Inorganic compounds of mercury	EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6	≥0.3 - <1	T+; R26/27/28 R33 N; R50/53	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]

SECTION 3: Composition/information on ingredients

<p>Denmark</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Estonia</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Finland</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>France</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Germany</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Greece</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Hungary</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Ireland</p>					



SECTION 3: Composition/information on ingredients

<p>Italy Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Italy Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Latvia Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Lithuania Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Netherlands Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Norway Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Poland Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Portugal Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>



SECTION 3: Composition/information on ingredients

<p>Romania</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Slovakia</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Slovenia</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Spain</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Sweden</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Switzerland</p> <p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3</p> <p>CAS: 10045-94-0</p> <p>Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28</p> <p>R33</p> <p>N; R50/53</p>	<p>Acute Tox. 2, H300</p> <p>Acute Tox. 1, H310</p> <p>Acute Tox. 2, H330</p> <p>STOT RE 2, H373</p> <p>Aquatic Acute 1, H400</p> <p>Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Turkey</p>					

SECTION 3: Composition/information on ingredients

<p>Inorganic compounds of mercury</p> <p>United Kingdom (UK)</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>
<p>Inorganic compounds of mercury</p>	<p>EC: 233-152-3 CAS: 10045-94-0 Index: 080-002-00-6</p>	<p>≥0.3 - <1</p>	<p>T+; R26/27/28 R33 N; R50/53</p>	<p>Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>[1] [2]</p>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
Inhalation : May cause respiratory irritation.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
Skin contact : No specific data.
Ingestion : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products : No specific data.

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- : Store between the following temperatures: 5 to 30°C (41 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.



SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe  Inorganic compounds of mercury	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 0.02 mg/m ³ , ((measured as mercury)) 8 hours.
Austria  Inorganic compounds of mercury	GKV_MAK (Austria, 12/2011). Absorbed through skin. Skin sensitiser. Notes: measured as Hg PEAK: 0.08 mg/m ³ , (measured as Hg), 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 0.02 mg/m ³ , (measured as Hg) 8 hours. Form: inhalable fraction
Belgium  Inorganic compounds of mercury	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). TWA: 0.02 mg/m ³ , (as Hg) 8 hours.
Bulgaria  Inorganic compounds of mercury	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 8 hours: 0.01 mg/m ³ 8 hours.
Croatia  Inorganic compounds of mercury	MinGoRP GVI/KGVI (Croatia, 6/2013). ELV: 0.02 mg/m ³ , (as Hg) 8 hours.
Czech Republic  Inorganic compounds of mercury	MZCR PEL/NPK-P (Czech Republic, 1/2013). Absorbed through skin. TWA: 0.02 mg/m ³ , (as Hg) 8 hours. STEL: 0.15 mg/m ³ , (as Hg) 15 minutes.
Denmark  Inorganic compounds of mercury	Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin. Notes: calculated as Hg TWA: 0.02 mg/m ³ , (calculated as Hg) 8 hours.
Estonia  Inorganic compounds of mercury	Töökeskkonna keemiliste ohutegurite piirnormid määrus nr 293 (Estonia, 1/2008). Absorbed through skin. Notes: calculated as Hg TWA: 0.03 mg/m ³ , (calculated as Hg) 8 hours.
Finland  Inorganic compounds of mercury	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014). Absorbed through skin. Notes: calculated as Hg TWA: 0.02 mg/m ³ , (calculated as Hg) 8 hours.
France	



SECTION 8: Exposure controls/personal protection

Inorganic compounds of mercury

Ministère du travail (France, 7/2012). Absorbed through skin. Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits
TWA: 0.1 mg/m³, (as Hg) 8 hours.

Germany

Inorganic compounds of mercury

MAK-Werte Liste (Germany, 6/2014). Absorbed through skin. Skin sensitiser. Notes: as Hg
PEAK: 0.16 mg/m³, (as Hg), 4 times per shift, 15 minutes. Form: inhalable fraction
TWA: 0.02 mg/m³, (as Hg) 8 hours. Form: inhalable fraction
TRGS900 AGW (Germany, 4/2014). Absorbed through skin. Skin sensitiser.
PEAK: 0.16 mg/m³ 15 minutes. Form: inhalable fraction
TWA: 0.02 mg/m³ 8 hours. Form: inhalable fraction

Greece

Inorganic compounds of mercury

Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).
TWA: 0.02 mg/m³, (as Hg) 8 hours.

Hungary

Inorganic compounds of mercury

25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011). Absorbed through skin. Skin sensitiser. Notes: as Hg
TWA: 0.02 mg/m³, (as Hg) 8 hours.

Ireland

Inorganic compounds of mercury

NAOSH (Ireland, 12/2011).
OELV-8hr: 0.02 mg/m³ 8 hours.

Italy

Inorganic compounds of mercury

Ministry of Labour and Social Policy (Italy, 10/2013). Absorbed through skin.
8 hours: 0.02 mg/m³, (as Hg) 8 hours.

Latvia

Inorganic compounds of mercury

Ministru kabineta - AER (Latvia, 2/2011). Notes: as mercury
TWA: 0.02 mg/m³, (as mercury) 8 hours.

Lithuania

Inorganic compounds of mercury

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). Absorbed through skin. Notes: as Hg
TWA: 0.02 mg/m³, (as Hg) 8 hours.

Netherlands

Inorganic compounds of mercury

MinSZW Wettelijke Grenswaarden (Netherlands, 6/2014).
OEL, 8-h TWA: 0.02 mg/m³, (measured as mercury) 8 hours.

Norway

Inorganic compounds of mercury

FOR-2011-12-06-1358 (Norway, 1/2013). Skin sensitiser. Notes: calculated as Hg
TWA: 0.02 mg/m³, (calculated as Hg) 8 hours.

Poland

Inorganic compounds of mercury

Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). Notes: calculated as Hg
TWA: 0.02 mg/m³, (calculated as Hg) 8 hours. Form: vapours

Portugal

Inorganic compounds of mercury

Instituto Português da Qualidade (Portugal, 3/2007). Absorbed through skin. Notes: expressed as Hg
TWA: 0.025 mg/m³, (expressed as Hg) 8 hours.

Romania



SECTION 8: Exposure controls/personal protection

<p>Inorganic compounds of mercury</p> <p>Slovakia</p>	<p>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 0.02 mg/m³, ((measured as mercury)) 8 hours.</p>
<p>Inorganic compounds of mercury</p> <p>Slovenia</p>	<p>Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011). TWA: 0.1 mg/m³, (Mercury and its divalent inorganic compounds including mercuric oxide and mercuric chloride, as Hg) 8 hours.</p>
<p>Inorganic compounds of mercury</p> <p>Spain</p>	<p>Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010). TWA: 0.02 mg/m³, (measured as Hg) 8 hours.</p>
<p>Inorganic compounds of mercury</p> <p>Sweden</p>	<p>INSHT (Spain, 1/2014). Absorbed through skin. Notes: As Hg TWA: 0.02 mg/m³, (as Hg) 8 hours.</p>
<p>Inorganic compounds of mercury</p> <p>Switzerland</p>	<p>AFS 2011:18 (Sweden, 12/2011). Absorbed through skin. Notes: as Hg TWA: 0.03 mg/m³, (as Hg) 8 hours.</p>
<p>Inorganic compounds of mercury</p> <p>Turkey</p>	<p>SUVA (Switzerland, 1/2014). Absorbed through skin. Skin sensitiser. Notes: calculated as Hg STEL: 0.16 mg/m³, (calculated as Hg) 15 minutes. Form: Inhalable dust (total dust) TWA: 0.02 mg/m³, (calculated as Hg) 8 hours. Form: Inhalable dust (total dust)</p>
<p>Inorganic compounds of mercury</p> <p>United Kingdom (UK)</p>	<p>TR ISGGM OEL (Turkey, 12/2013). TWA: 0.02 mg/m³, (measured as mercury) 8 hours.</p>
<p>Inorganic compounds of mercury</p>	<p>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.02 mg/m³, (as Hg) 8 hours.</p>

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

SECTION 8: Exposure controls/personal protection

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: None assigned.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Clear. Yellowish.

Odour : Not available.

pH : 7 [Conc. (% w/w): 100%]

Melting point/freezing point : Not available.

Initial boiling point and boiling range : 100°C

Flash point : Not available.

Upper/lower flammability or explosive limits : Not available.

Relative density : 1

Solubility(ies) : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ water : Not available.

Auto-ignition temperature : Not available.

:



SECTION 9: Physical and chemical properties

VOC content 0 % (w/w)

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
inorganic compounds of mercury	LD50 Dermal	Rat	75 mg/kg	-
	LD50 Oral	Rat	26 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)



SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
inorganic compounds of mercury	Category 2	Not determined	Not determined

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

- Inhalation** : May cause respiratory irritation.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Ingestion** : No specific data.
- Skin contact** : No specific data.
- Eye contact** : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.
- General** : May cause damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Other information** : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
inorganic compounds of mercury	Acute LC50 0.001 to 0.002 mg/l Fresh water	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 172 to 347 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Conclusion/Summary : Not available.



SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
16 03 03*	inorganic wastes containing dangerous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information



SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
Additional information	-	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Substances of very high concern](#)

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

[Other EU regulations](#)

[Europe inventory](#) : All components are listed or exempted.

[National regulations](#)

[Austria](#)

[Belgium](#)

[Bulgaria](#)

[Croatia](#)

[Czech Republic](#)

[Denmark](#)

[Estonia](#)



SECTION 15: Regulatory information

[Finland](#)

[France](#)

[Germany](#)

Hazard class for water : 2 Appendix No. 4

[Greece](#)

[Hungary](#)

[Ireland](#)

[Italy](#)

[Latvia](#)

[Lithuania](#)

Product/ingredient name	List name	Name on list	Classification	Notes
inorganic compounds of mercury	Lithuania Occupational Exposure Values	gyvsidabrio junginiai, išskyrus nurodytus kitur šiame sąraše kaip Hg	Repro. R, Muta. M	-

[Netherlands](#)

[Norway](#)

[Poland](#)

[Portugal](#)

[Romania](#)

[Slovakia](#)

[Slovenia](#)

[Spain](#)

[Sweden](#)

[Switzerland](#)

[Turkey](#)

[United Kingdom \(UK\)](#)

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Date of printing : 07.12.2016

Date of issue/ Date of revision : 30.11.2016

Date of previous issue : 29.11.2016

Version : 2.11

Notice to reader

☑ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

Classification

Justification



STOT SE 3, H335	Expert judgment
STOT RE 2, H373	Expert judgment
Aquatic Chronic 3, H412	Expert judgment

Europe

- Full text of abbreviated H statements**
- : H300 Fatal if swallowed.
 - H310 Fatal in contact with skin.
 - H330 Fatal if inhaled.
 - H335 May cause respiratory irritation.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.

- Full text of classifications [CLP/GHS]**
- : Acute Tox. 1, H310 ACUTE TOXICITY (dermal) - Category 1
 - Acute Tox. 2, H300 ACUTE TOXICITY (oral) - Category 2
 - Acute Tox. 2, H330 ACUTE TOXICITY (inhalation) - Category 2
 - Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
 - Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1
 - Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3
 - STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
 - STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

- Full text of abbreviated R phrases**
- : R26/27/28- Very toxic by inhalation, in contact with skin and if swallowed.
 - R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
 - R33- Danger of cumulative effects.
 - R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Full text of classifications [DSD/DPD]**
- : T+ - Very toxic
 - Xn - Harmful
 - N - Dangerous for the environment

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Fernox SDS CLP Europe

