



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

SAFETY DATA SHEET

Protector Test Kit

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

1.1 Product identifier

Product name : Protector Test Kit
Product code : 37906
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]

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Ingredients of unknown toxicity :

Ingredients of unknown ecotoxicity :

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

Date of issue/Date of revision : 13.02.2017

A MacDermid Performance Solutions Business
A Platform Specialty Products Company



SECTION 2: Hazards identification

Europe

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

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 : Causes serious eye irritation.
Causes skin irritation.

Precautionary statements

Prevention : Wear protective gloves: < 1 hour (breakthrough time); disposable vinyl. Wear eye or face protection: Recommended: None assigned.. Wash hands thoroughly after handling.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : hydrochloric acid

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 hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37 See Section 16 for the full text of the R-phrases declared above.	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	[1] [2]
Austria					



SECTION 3: Composition/information on ingredients

hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	Xi; R37 F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Belgium					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	Xi; R37 F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Bulgaria					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	Xi; R37 F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Croatia					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	Xi; R37 F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Czech Republic					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	Xi; R37 F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Denmark					

SECTION 3: Composition/information on ingredients

hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11		[2]
Estonia					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11		[2]
Finland					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11		[2]
France					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11		[2]
Germany					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11		[2]
Greece					

SECTION 3: Composition/information on ingredients

hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Hungary					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Ireland					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Italy					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
Latvia					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Lithuania					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]

SECTION 3: Composition/information on ingredients

Netherlands	Index: 603-002-00-5				
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Flam. Liq. 2, H225	[2]
Norway					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Flam. Liq. 2, H225	[2]
Poland					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Flam. Liq. 2, H225	[2]
Portugal					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Flam. Liq. 2, H225	[2]
Romania					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Flam. Liq. 2, H225	[2]
Slovakia					

SECTION 3: Composition/information on ingredients

hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Slovenia					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Spain					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Sweden					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Switzerland					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34	Met. Corr. 1, H290	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[2]
Turkey					

SECTION 3: Composition/information on ingredients

hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11		[2]
United Kingdom (UK)					
hydrochloric acid	REACH #: 01-2119484862-27 EC: 231-595-7 CAS: 7647-01-0 Index: 017-002-01-X	≥1 - <3	C; R34 Xi; R37	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Flam. Liq. 2, H225	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥1 - <3	F; R11		[2]

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.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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. 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 if adverse health effects persist or are severe. 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. 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** : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- 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.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds

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).

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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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 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. 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.

7.3 Specific end use(s)

- Recommendations** : Not available.



SECTION 7: Handling and storage

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 hydrochloric acid	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 5 ppm 8 hours. TWA: 8 mg/m ³ 8 hours. STEL: 10 ppm 15 minutes. STEL: 15 mg/m ³ 15 minutes.
Austria hydrochloric acid	GKV_MAK (Austria, 12/2011). TWA: 5 ppm 8 hours. TWA: 8 mg/m ³ 8 hours. CEIL: 10 ppm, 8 times per shift, 5 minutes. CEIL: 15 mg/m ³ , 8 times per shift, 5 minutes.
ethanol	GKV_MAK (Austria, 12/2011). CEIL: 3800 mg/m ³ , 3 times per shift, 60 minutes. CEIL: 2000 ppm, 3 times per shift, 60 minutes. TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
Belgium hydrochloric acid	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). TWA: 5 ppm 8 hours. TWA: 8 mg/m ³ 8 hours. STEL: 10 ppm 15 minutes. STEL: 15 mg/m ³ 15 minutes.
ethanol	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). TWA: 1907 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
Bulgaria hydrochloric acid	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 15 min: 15 mg/m ³ 15 minutes. Limit value 8 hours: 8 mg/m ³ 8 hours. Limit value 8 hours: 5 ppm 8 hours. Limit value 15 min: 10 ppm 15 minutes.
ethanol	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 8 hours: 1000 mg/m ³ 8 hours.
Croatia hydrochloric acid	MinGoRP GVI/KGVI (Croatia, 6/2013). STELV: 15 mg/m ³ 15 minutes. STELV: 10 ppm 15 minutes. ELV: 8 mg/m ³ 8 hours. ELV: 5 ppm 8 hours.
ethanol	MinGoRP GVI/KGVI (Croatia, 6/2013). ELV: 1900 mg/m ³ 8 hours. ELV: 1000 ppm 8 hours.
Czech Republic	



SECTION 8: Exposure controls/personal protection

hydrochloric acid	MZCR PEL/NPK-P (Czech Republic, 1/2013). TWA: 8 mg/m ³ 8 hours. TWA: 5.432 ppm 8 hours. STEL: 15 mg/m ³ 15 minutes. STEL: 10.185 ppm 15 minutes.
ethanol	MZCR PEL/NPK-P (Czech Republic, 1/2013). STEL: 3000 mg/m ³ 15 minutes. STEL: 1596 ppm 15 minutes. TWA: 1000 mg/m ³ 8 hours. TWA: 532 ppm 8 hours.
Denmark	
hydrochloric acid	Arbejdstilsynet (Denmark, 10/2012). CEIL: 5 ppm CEIL: 8 mg/m ³
ethanol	Arbejdstilsynet (Denmark, 10/2012). TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
Estonia	
hydrochloric acid	Töökeskonna keemiliste ohutegurite piirnормid määrus nr 293 (Estonia, 1/2008). TWA: 8 mg/m ³ 8 hours. TWA: 5 ppm 8 hours. STEL: 15 mg/m ³ 15 minutes. STEL: 10 ppm 15 minutes.
ethanol	Töökeskonna keemiliste ohutegurite piirnормid määrus nr 293 (Estonia, 1/2008). STEL: 1900 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1000 mg/m ³ 8 hours. TWA: 500 ppm 8 hours.
Finland	
hydrochloric acid	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014). STEL: 5 ppm 15 minutes. Form: solution STEL: 7.6 mg/m ³ 15 minutes. Form: solution
ethanol	Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014). STEL: 2500 mg/m ³ 15 minutes. STEL: 1300 ppm 15 minutes. TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
France	
hydrochloric acid	Ministère du travail (France, 7/2012). Notes: Labour Act , Art 4412-149 (Regulatory binding exposure limits) STEL: 5 ppm 15 minutes. STEL: 7.6 mg/m ³ 15 minutes.
ethanol	Ministère du travail (France, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits STEL: 9500 mg/m ³ 15 minutes. STEL: 5000 ppm 15 minutes. TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
Germany	

SECTION 8: Exposure controls/personal protection

hydrochloric acid

TRGS900 AGW (Germany, 4/2014).

TWA: 3 mg/m³ 8 hours.
PEAK: 6 mg/m³ 15 minutes.
TWA: 2 ppm 8 hours.
PEAK: 4 ppm 15 minutes.

MAK-Werte Liste (Germany, 6/2014).

TWA: 2 ppm 8 hours.
PEAK: 4 ppm, 4 times per shift, 15 minutes.
TWA: 3 mg/m³ 8 hours.
PEAK: 6 mg/m³, 4 times per shift, 15 minutes.

MAK-Werte Liste (Germany, 6/2014).

PEAK: 1920 mg/m³, 4 times per shift, 15 minutes.
PEAK: 1000 ppm, 4 times per shift, 15 minutes.
TWA: 960 mg/m³ 8 hours.
TWA: 500 ppm 8 hours.

TRGS900 AGW (Germany, 4/2014).

PEAK: 1920 mg/m³ 15 minutes.
PEAK: 1000 ppm 15 minutes.
TWA: 960 mg/m³ 8 hours.
TWA: 500 ppm 8 hours.

ethanol

Greece

hydrochloric acid

Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).

TWA: 5 ppm 8 hours.
TWA: 7 mg/m³ 8 hours.
STEL: 5 ppm 15 minutes.
STEL: 7 mg/m³ 15 minutes.

ethanol

Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).

TWA: 1900 mg/m³ 8 hours.
TWA: 1000 ppm 8 hours.

Hungary

hydrochloric acid

25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011). Skin sensitiser.

TWA: 8 mg/m³ 8 hours.
PEAK: 16 mg/m³ 15 minutes.

ethanol

25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011).

PEAK: 7600 mg/m³ 15 minutes.
TWA: 1900 mg/m³ 8 hours.

Ireland

hydrochloric acid

NAOSH (Ireland, 12/2011).

OELV-8hr: 5 ppm 8 hours.
OELV-8hr: 7 mg/m³ 8 hours.
OELV-15min: 10 ppm 15 minutes.
OELV-15min: 15 mg/m³ 15 minutes.

ethanol

NAOSH (Ireland, 12/2011).

OELV-15min: 1000 ppm 15 minutes.

Italy

hydrochloric acid

Ministry of Labour and Social Policy (Italy, 10/2013).

8 hours: 5 ppm 8 hours.
8 hours: 8 mg/m³ 8 hours.
Short Term: 10 ppm 15 minutes.
Short Term: 15 mg/m³ 15 minutes.

Latvia



SECTION 8: Exposure controls/personal protection

hydrochloric acid	Ministru kabineta - AER (Latvia, 2/2011). TWA: 5 ppm 8 hours. TWA: 8 mg/m ³ 8 hours. STEL: 10 ppm 15 minutes. STEL: 15 mg/m ³ 15 minutes.
ethanol	Ministru kabineta - AER (Latvia, 2/2011). TWA: 1000 mg/m ³ 8 hours.
Lithuania	
hydrochloric acid	Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). TWA: 8 mg/m ³ 8 hours. TWA: 5 ppm 8 hours. STEL: 15 mg/m ³ 15 minutes. STEL: 10 ppm 15 minutes.
ethanol	Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). STEL: 1900 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1000 mg/m ³ 8 hours. TWA: 500 ppm 8 hours.
Netherlands	
hydrochloric acid	MinSZW Wettelijke Grenswaarden (Netherlands, 6/2014). OEL, 8-h TWA: 8 mg/m ³ 8 hours. STEL, 15-min: 15 mg/m ³ 15 minutes.
ethanol	MinSZW Wettelijke Grenswaarden (Netherlands, 6/2014). Absorbed through skin. OEL, 8-h TWA: 260 mg/m ³ 8 hours. STEL, 15-min: 1900 mg/m ³ 15 minutes.
Norway	
hydrochloric acid	FOR-2011-12-06-1358 (Norway, 1/2013). CEIL: 5 ppm CEIL: 7 mg/m ³
ethanol	FOR-2011-12-06-1358 (Norway, 1/2013). TWA: 950 mg/m ³ 8 hours. TWA: 500 ppm 8 hours.
Poland	
hydrochloric acid	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). TWA: 5 mg/m ³ 8 hours. STEL: 10 mg/m ³ 15 minutes.
ethanol	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). TWA: 1900 mg/m ³ 8 hours.
Portugal	
hydrochloric acid	Instituto Português da Qualidade (Portugal, 3/2007). CEIL: 2 ppm
ethanol	Instituto Português da Qualidade (Portugal, 3/2007). TWA: 1000 ppm 8 hours.
Romania	
hydrochloric acid	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). VLA: 8 mg/m ³ 8 hours. VLA: 5 ppm 8 hours. Short term: 15 mg/m ³ 15 minutes. Short term: 10 ppm 15 minutes.
ethanol	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). VLA: 1900 mg/m ³ 8 hours. VLA: 1000 ppm 8 hours. Short term: 9500 mg/m ³ 15 minutes.



SECTION 8: Exposure controls/personal protection

Slovakia

hydrochloric acid

ethanol

Slovenia

hydrochloric acid

ethanol

Spain

hydrochloric acid

ethanol

Sweden

hydrochloric acid

ethanol

Switzerland

hydrochloric acid

ethanol

Turkey

Short term: 5000 ppm 15 minutes.

Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011).

TWA: 8 mg/m³ 8 hours.
TWA: 5 ppm 8 hours.
STEL: 15 mg/m³ 15 minutes.
STEL: 10 ppm 15 minutes.

Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011).

STEL: 1920 mg/m³ 15 minutes.
TWA: 960 mg/m³ 8 hours.
TWA: 500 ppm 8 hours.
STEL: 1000 ppm 15 minutes.

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010).

TWA: 8 mg/m³ 8 hours.
TWA: 5 ppm 8 hours.
KTV: 16 mg/m³, 4 times per shift, 15 minutes.
KTV: 10 ppm, 4 times per shift, 15 minutes.

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010).

TWA: 1900 mg/m³ 8 hours.
TWA: 1000 ppm 8 hours.
KTV: 7600 mg/m³, 4 times per shift, 15 minutes.
KTV: 4000 ppm, 4 times per shift, 15 minutes.

INSHT (Spain, 1/2014).

TWA: 5 ppm 8 hours.
TWA: 7.6 mg/m³ 8 hours.
STEL: 10 ppm 15 minutes.
STEL: 15 mg/m³ 15 minutes.

INSHT (Spain, 1/2014).

STEL: 1910 mg/m³ 15 minutes.
STEL: 1000 ppm 15 minutes.

AFS 2011:18 (Sweden, 12/2011).

CEIL: 5 ppm 15 minutes.
CEIL: 8 mg/m³ 15 minutes.

AFS 2011:18 (Sweden, 12/2011).

STEL: 1900 mg/m³ 15 minutes.
STEL: 1000 ppm 15 minutes.
TWA: 1000 mg/m³ 8 hours.
TWA: 500 ppm 8 hours.

SUVA (Switzerland, 1/2014).

TWA: 2 ppm 8 hours.
TWA: 3 mg/m³ 8 hours.
STEL: 4 ppm 15 minutes.
STEL: 6 mg/m³ 15 minutes.

SUVA (Switzerland, 1/2014). Notes: not temporary

STEL: 1920 mg/m³ 15 minutes.
STEL: 1000 ppm 15 minutes.
TWA: 960 mg/m³ 8 hours.
TWA: 500 ppm 8 hours.



SECTION 8: Exposure controls/personal protection

hydrochloric acid	<p>TR ISGGM OEL (Turkey, 12/2013). TWA: 8 mg/m³ 8 hours. TWA: 5 ppm 8 hours. STEL: 15 mg/m³ 15 minutes. STEL: 10 ppm 15 minutes.</p> <p>NIOSH REL (United States, 10/2013). TWA: 1900 mg/m³ 10 hours. TWA: 1000 ppm 10 hours.</p> <p>EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 8 mg/m³ 15 minutes. Form: Gas and aerosol mists STEL: 5 ppm 15 minutes. Form: Gas and aerosol mists TWA: 2 mg/m³ 8 hours. Form: Gas and aerosol mists TWA: 1 ppm 8 hours. Form: Gas and aerosol mists</p> <p>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 1920 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.</p>
ethanol	
United Kingdom (UK) hydrochloric acid	
ethanol	

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 : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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: chemical splash goggles. Recommended: None assigned.

Skin protection

SECTION 8: Exposure controls/personal 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.
- 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** : Red.
- Odour** : Alcohol-like.
- pH** : <2.5 [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** : Not available.
- 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.
- VOC content** : 2.5 % (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

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrochloric acid	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	Skin - Mild irritant	Human	-	5 milligrams 24 hours 4 Percent	-

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)

Product/ingredient name	Category	Route of exposure	Target organs
hydrochloric acid	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.



SECTION 11: Toxicological information

Information on likely routes of exposure : Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

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 : No known significant effects or critical hazards.

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
hydrochloric acid	Acute LC50 240000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
	Acute LC50 282 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Date of issue/Date of revision : 13.02.2017



SECTION 12: Ecological information

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 : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

European waste catalogue (EWC)







Waste code	Waste designation
16 03 04	inorganic wastes other than those mentioned in 16 03 03

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 spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	1760	1760	1760
14.2 UN proper shipping name	 CORROSIVE LIQUID, N.O.S. (Hydrochloric acid)	 CORROSIVE LIQUID, N.O.S. (Hydrochloric acid)	 CORROSIVE LIQUID, N.O.S. (Hydrochloric acid)
14.3 Transport hazard class(es)	8 	8 	8 

SECTION 14: Transport information

14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.
Additional information	<u>Tunnel code</u> E	-	-

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

Finland

France

Germany

Hazard class for water : 1 Appendix No. 4

Greece

Hungary

Ireland

Italy

Latvia

Lithuania

Netherlands



SECTION 15: Regulatory information

Product/ingredient name	List name	Name on list	Classification	Notes
ethanol	Netherlands Carcinogenic Chemicals	ethanol; ethylalcohol	Carc.	-
	Netherlands Reprotoxic Chemicals	ethanol; ethylalcohol	Repro. fertility category 1, Dev. breast feeding (X), Dev. development category 1	

[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

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Version : 2.22

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
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment

Europe

Full text of abbreviated H statements : H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.



Protector Test Kit

23/23

Full text of classifications [CLP/GHS] : Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Met. Corr. 1, H290 CORROSIVE TO METALS - Category 1
Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Full text of abbreviated R phrases : R34- Causes burns.
R37- Irritating to respiratory system.

Full text of classifications [DSD/DPD] : C - Corrosive
Xi - Irritant

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

