

SAFETY DATA SHEET

Cleaner F5 Express 280ml

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

1.1 Product identifier

Product name : Cleaner F5 Express 280ml

: 58230 **Product code**

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 : Water treatment agent. 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

Date of issue/Date of revision : 30.11.2016

Product definition : Mixture

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

Press. Gas Comp. Gas, H280 Ingredients of unknown

toxicity

Ingredients of unknown

ecotoxicity

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

Europe



2015/830 Cleaner F5 Express 280ml 2/17

SECTION 2: Hazards identification

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 : Contains gas under pressure; may explode if heated.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : ▶rotect from sunlight.

Disposal : Not applicable.

Hazardous ingredients

Supplemental label : Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

elements

2.3 Other hazards

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Date of issue/Date of revision : 30.11.2016

| | | | <u>Classification</u> | | |
|-------------------------|-------------------------------|---------|---|--|------|
| Product/ingredient name | Identifiers | % | 67/548/EEC | Regulation (EC) No. 1272/2008 [CLP] | Туре |
| Europe | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| | | | See Section 16 for the full text of the R- phrases declared above. | See Section 16 for the full text of the H statements declared above. | |
| Austria | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Belgium | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Bulgaria | | | | | |



| SECTION 3: Composition/information on ingredients | SECTION 3: | Composition/ | /information | on ingredients |
|--|-------------------|--------------|--------------|----------------|
|--|-------------------|--------------|--------------|----------------|

Date of issue/Date of revision : 30.11.2016

| benzotriazole | REACH #: | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
|------------------|---|---------|-------------------|---|-----|
| | 01-2119979079-20 | | V: D00 | Fire limit 0 11040 | |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Croatia | OAO. 30-14-1 | | 1.02/00 | Aquatic Official 2, 11411 | |
| propane-1,2-diol | REACH #: | ≥10 - | Not classified. | Not classified. | _ |
| propane-1,z-dioi | 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 | <25 | Not classified. | Not classified. | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Czech Republic | 2 | | | 4.1.2.2.2 | |
| benzotriazole | REACH #: | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | 01-2119979079-20 EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| Denmark | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| Estonia | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| Finland | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| France | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| _ | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| Germany | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| _ | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| Greece | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| Hungary | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 | | Xi; R36 | Eye Irrit. 2, H319 | |
| | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | 1 |
| | UAU. 33-1 4 -1 | | | | |
| Ireland | OAG. 33-14-7 | | | | |

SECTION 3: Composition/information on ingredients

Date of issue/Date of revision : 30.11.2016

| propane-1,2-diol | REACH #: 01-2119456809-23 | ≥10 - <25 | Not classified. | Not classified. | [2] |
|------------------|---|--------------|--------------------|---|---------|
| | EC: 200-338-0 CAS: 57-55-6 | 120 | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Italy | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 EC: 202-394-1 | ≥1 - <2 | Xn; R22 Xi; R36 | Acute Tox. 4, H302 Eye Irrit. 2, H319 | [1] |
| | CAS: 95-14-7 | | R52/53 | Aquatic Chronic 2, H411 | |
| Latvia | | | | | |
| propane-1,2-diol | REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 | ≥10 - <25 | Not classified. | Not classified. | [2] |
| sodium chloride | REACH #: 01-2119485491-33 EC: 231-598-3 CAS: 7647-14-5 | ≥5 - <10 | Not classified. | Not classified. | [2] |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] [2] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Lithuania | | | | | |
| propane-1,2-diol | REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 | ≥10 - <25 | Not classified. | Not classified. | [2] |
| sodium chloride | CAS: 57-35-6 REACH #: 01-2119485491-33 EC: 231-598-3 CAS: 7647-14-5 | ≥5 - <10 | Not classified. | Not classified. | [2] |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Netherlands | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Norway | | | | | |
| propane-1,2-diol | REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 | ≥10 - <25 | Not classified. | Not classified. | [2] |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Poland | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| | | | | | |

SECTION 3: Composition/information on ingredients

| Portugal | | | | | |
|---------------------|---|--------------|-------------------|--|-----|
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Romania | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Slovakia | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Slovenia | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Spain | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Sweden | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Switzerland | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| Turkey | | | | | |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| United Kingdom (UK) | | | | | |
| propane-1,2-diol | REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 | ≥10 - <25 | Not classified. | Not classified. | [2] |
| benzotriazole | REACH #: 01-2119979079-20 | ≥1 - <2 | Xn; R22 | Acute Tox. 4, H302 | [1] |
| | EC: 202-394-1 CAS: 95-14-7 | | Xi; R36 R52/53 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |

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



2015/830 Cleaner F5 Express 280ml 6/17

SECTION 3: Composition/information on ingredients

- [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 if irritation occurs.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eve contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. **Skin contact** : No specific data. : No specific data. Ingestion

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

: No specific treatment. **Specific treatments**

Date of issue/Date of revision : 30.11.2016

7/17

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

media

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 nitrogen oxides sulfur oxides phosphorus oxides

halogenated compounds metal oxide/oxides

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.

SECTION 6: Accidental release measures

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

: Fut 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. Protect from sunlight. 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
Industrial sector specific solutions

Not available.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

Date of issue/Date of revision : 30.11.2016

| Product/ingredient name | Exposure limit values |
|--------------------------------|--|
| Europe | |
| No exposure limit value known. | |
| Austria | |
| No exposure limit value known. | |
| Belgium | |
| No exposure limit value known. | |
| Bulgaria | |
| No exposure limit value known. | |
| Croatia | |
| propane-1,2-diol | MinGoRP GVI/KGVI (Croatia, 6/2013). ELV: 10 mg/m³ 8 hours. Form: particulates ELV: 474 mg/m³ 8 hours. Form: total vapour and particulates ELV: 150 ppm 8 hours. |

8/17

9/17

SECTION 8: Exposure controls/personal protection

Czech Republic

No exposure limit value known.

Denmark

No exposure limit value known.

Estonia

No exposure limit value known.

Finland

No exposure limit value known.

France

No exposure limit value known.

Germany

No exposure limit value known.

Greece

No exposure limit value known.

Hungary

No exposure limit value known.

Ireland

propane-1,2-diol

Italy

No exposure limit value known.

Latvia

propane-1,2-diol

sodium chloride

benzotriazole

Lithuania

propane-1,2-diol

sodium chloride

Netherlands

No exposure limit value known.

Norway

propane-1,2-diol

Poland

No exposure limit value known.

Portugal

No exposure limit value known.

Romania

No exposure limit value known.

Date of issue/Date of revision : 30.11.2016

Slovakia

NAOSH (Ireland, 12/2011).

OELV-8hr: 10 mg/m3 8 hours. Form: particulate

OELV-8hr: 470 mg/m³ 8 hours. Form: vapour and particulates OELV-8hr: 150 ppm 8 hours. Form: vapour and particulates

Ministru kabineta - AER (Latvia, 2/2011).

TWA: 7 mg/m³ 8 hours.

Ministru kabineta - AER (Latvia, 2/2011).

TWA: 5 mg/m³ 8 hours.

Ministru kabineta - AER (Latvia, 2/2011).

TWA: 5 mg/m³ 8 hours.

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007).

TWA: 7 mg/m³ 8 hours.

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007).

TWA: 5 mg/m³ 8 hours.

FOR-2011-12-06-1358 (Norway, 1/2013).

TWA: 79 mg/m³ 8 hours. TWA: 25 ppm 8 hours.



10/17

SECTION 8: Exposure controls/personal protection

No exposure limit value known.

Slovenia

No exposure limit value known.

Spain

No exposure limit value known.

Sweden

No exposure limit value known.

Switzerland

No exposure limit value known.

Turkey

No exposure limit value known.

United Kingdom (UK)

propane-1,2-diol

EH40/2005 WELs (United Kingdom (UK), 12/2011).

TWA: 10 mg/m³ 8 hours. Form: Particulate

TWA: 474 mg/m³ 8 hours. Form: Sum of vapour and particulates TWA: 150 ppm 8 hours. Form: Sum of vapour and particulates

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: safety glasses with side-shields. Recommended: safety glasses with side-shields

Skin protection

2015/830 Cleaner F5 Express 280ml 11/17

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: None assigned.

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 Amber. **Odour** : Faint odour. Not available. Hq Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range

Flash point : Not available. **Upper/lower flammability or** : Not available.

explosive limits

Relative density : 1.235

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

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature Not available.

VOC content 15.1 % (w/w)

9.2 Other information

No additional information.



Cleaner F5 Express 280ml 12/17

SECTION 10: Stability and reactivity

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

: The product is stable. 10.2 Chemical stability

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 |
|-------------------------|-----------|---------|-----------|----------|
| benzotriazole | LD50 Oral | Rat | 560 mg/kg | - |

Conclusion/Summary

: Not available.

Acute toxicity estimates

| Route | ATE value |
|--------------|---------------|
| Ø ral | 46666.7 mg/kg |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|------------------------|---------|-------|------------|-------------|
| benzotriazole | Eyes - Severe irritant | Rabbit | - | 100 | - |
| | | | | milligrams | |

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)

Not available.

Aspiration hazard

Not available.

Cleaner F5 Express 280ml

SECTION 11: Toxicological information

Information on likely : Not available.

routes of exposure

Potential acute health effects

Inhalation: No known significant effects or critical hazards.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: No specific data.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 : Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate : Not available.

effects

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 |
|-------------------------|----------------------|---------|----------|
| - | Acute LC50 >100 mg/l | Fish | 96 hours |

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition : Not available.

Date of issue/Date of revision : 30.11.2016

coefficient (Koc)



SECTION 12: Ecological information

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 06 | organic wastes other than those mentioned in 16 03 05 |

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

| | ADR/RID | IMDG | IATA |
|----------------------------------|-------------------------|-------------------------|-------------------------|
| 14.1 UN number | 1950 | 1950 | 1950 |
| 14.2 UN proper shipping name | Aerosols, non-flammable | Aerosols, non-flammable | Aerosols, non-flammable |
| 14.3 Transport hazard class(es) | 2 | 2.2 | 2.2 |
| 14.4 Packing group | - | - | |
| 14.5 Environmental hazards | No. | No. | No. |
| | | | |



15/17 Cleaner F5 Express 280ml

SECTION 14: Transport information

Additional Emergency schedules **Tunnel code** information (EmS) F-D, S-U

user

14.6 Special precautions for : 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 : Not applicable.

on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Europe inventory : Not determined.

National regulations

Austria Belgium

Bulgaria

Croatia

Czech Republic

Denmark Estonia

Finland

France

Professional Disease(s) - Table number: 84

Germany

Hazard class for water : 1 Appendix No. 4

Date of issue/Date of revision : 30.11.2016

Greece

Hungary Ireland

Italy

Latvia

Lithuania

Netherlands

Norway

Poland

Portugal

Romania

Cleaner F5 Express 280ml

16/17

SECTION 15: Regulatory information

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 : 30.11.2016

revision

Date of previous issue : 29.11.2016 **Version** 2.17

Notice to reader

Indicates information that has changed from previously issued version.

Abbreviations and : ATE = Acute Toxicity Estimate

acronyms

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**

Press. Gas Comp. Gas, H280 Expert judgment

Europe

Full text of abbreviated H

statements

: H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

: Acute Tox. 4. H302 ACUTE TOXICITY (oral) - Category 4

Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Press. Gas Comp. Gas, GASES UNDER PRESSURE - Compressed gas

H280

Full text of abbreviated R

phrases

: R22- Harmful if swallowed.

R36- Irritating to eyes.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications

[DSD/DPD]

: Xn - Harmful Xi - Irritant

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

Date of issue/Date of revision : 30.11.2016

Fernox SDS CLP Europe