



# MATERIAL SAFETY DATA SHEET

## PROTEX UNIVERSAL CLEANER



Compilation date: 05/06/2015

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Revision No: 6

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: PROTEX UNIVERSAL CLEANSER

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

Use of substance / mixture: Used as a pre-commission cleaner in a new wet central heating system.

#### 1.3. Details of the supplier of the safety data sheet

Company name: Excel Industries  
Coolmine Industrial Estate  
Clonsilla Rd  
Dublin 15  
Ireland

Tel: +353 18118701

Fax: +353 18118786

Email: [sales@excel-industries.com](mailto:sales@excel-industries.com)

#### 1.4. Emergency telephone number

Emergency tel: Emergency medical information:  
8am-10pm (seven days)  
Contact National Poisons Information Centre,  
Beaumont Hospital, Dublin 9 DOV2NO, Ireland.  
Telephone Number: +353 (0)1 809 2166

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314

Most important adverse effects: Causes severe skin burns and eye damage.

#### 2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

Hazard pictograms: GHS05: Corrosion



[cont...]

**MATERIAL SAFETY DATA SHEET****PROTEX UNIVERSAL CLEANER****Signal words:** Danger**Precautionary statements:** P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P102: Keep out of reach of children.

**2.3. Other hazards****PBT:** This product is not identified as a PBT/vPvB substance.**Section 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients:**

TRIETHANOLAMINE - REACH registered number(s): 01-2119486482-31-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-049-8	102-71-6	-	Eye Irrit. 2: H319	1-10%

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE - REACH registered number(s): 01-2119486762-27

200-573-9	64-02-8	-	Acute Tox. 4: H302; Eye Dam. 1: H318	1-10%
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ACID PHOSPHATE ESTER - REACH registered number(s): EXEMPT POLYMER

609-691-9	39464-70-5	-	Skin Irrit. 2: H315; Eye Dam. 1: H318	1-10%
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NITRILOTRIMETHYLENETRIS - REACH registered number(s): 2119487988-08-0002

229-146-5	6419-19-8	-	Met. Corr. 1: H290; Skin Irrit. 2: H315; Eye Irrit. 2: H319	1-10%
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ALCOHOLS, C12-14 (EVEN NUMBERED), ETHOXYLATED (CAS: 68439-50-9) - REACH registered number(s): EXEMPT POLYMER

932-106-6	68439-50-9	-	Eye Dam. 1: H318; Aquatic Acute 1: H400	<1%
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**Section 4: First aid measures****4.1. Description of first aid measures****Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

[cont...]



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**Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.



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#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.  
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

#### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Workplace exposure limits:** No data available.

#### DNEL/PNEC Values

**Hazardous ingredients:**

##### TRIETHANOLAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	5mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	6.3 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	1.25 mg/m <sup>3</sup>	General Population	Systemic
DNEL	Dermal	3.1 mg/kg bw/day	General Population	Systemic
DNEL	Oral	13 mg/kg bw/day	General Population	Systemic
PNEC	Fresh water	0.32 mg/l	-	-
PNEC	Marine water	0.032 mg/l	-	-
PNEC	Intermittant Releases	5.12 mg/l	-	-
PNEC	STP	10 mg/l	-	-

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PNEC	Fresh water sediments	1.7 mg/kg d.w.	-	-
PNEC	Fresh water sediments	0.17 mg/kg d.w.	-	-
PNEC	Soil (agricultural)	0.151 mg/kg d.w.	-	-

### NITRILOTRIMETHYLENETRIS

Type	Exposure	Value	Population	Effect
-	-	-	Workers	-

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self contained breathing apparatus conforming to European Standard EN 1146 must be available in case of emergency.

**Hand protection:** Wear chemical resistant gloves complying with EN 374. Minimum breakthrough time of glove material >30 minutes

**Eye protection:** Wear tightly fitting safety goggles with side shields conforming to European Standard EN 166. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** No special requirement.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Pale yellow

**Odour:** Characteristic odour

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Miscible

**Viscosity:** Non-viscous

**Kinematic viscosity:** 0.658

**Viscosity test method:** Kinematic viscosity in 10<sup>-6</sup> m<sup>2</sup>/s at 40°C (ISO 3104/3105)

**Boiling point/range°C:** 100

**Melting point/range°C:** No data available.

**Flammability limits %: lower:** No data available.

**upper:** No data available.

**Flash point°C:** >90

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** No data available.

**Vapour pressure:** No data available.

**Relative density:** No data available.

**pH:** >11.5

**VOC g/l:** No data available.

### 9.2. Other information

**Other information:** Not applicable.



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### Section 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

**Conditions to avoid:** No additional information available.

#### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

##### Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Respiratory/skin sensitisation	-	No hazard: calculated
Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated
STOT-single exposure	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated



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Aspiration hazard

-

No hazard: calculated

## Symptoms / routes of exposure

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

## 12.1. Toxicity

**Ecotoxicity values:** No data available.

## 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

## 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

## 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

## 14.1. UN number

**UN number:** UN1760

## 14.2. UN proper shipping name

**Shipping name:** CORROSIVE LIQUID, N.O.S.

**MATERIAL SAFETY DATA SHEET****PROTEX UNIVERSAL CLEANER****14.3. Transport hazard class(es)**

Transport class: 8

**14.4. Packing group**

Packing group: I

**14.5. Environmental hazards**

Environmentally hazardous: No

Marine pollutant: No

**14.6. Special precautions for user**

Special precautions: No special precautions.

Tunnel code: E

Transport category: 1

**Section 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Specific regulations:** Safety, Health and Welfare at Work Act 2005 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2015 (SI 2015 No. 288) (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 (as amended).

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information****Other information**

**Other information:** European Standards Referenced:

I.S. EN 1146:2005 - Respiratory Protective Devices - Self-contained Open-circuit Compressed Air Breathing Apparatus Incorporating A Hood For Escape - Requirements, Testing, Marking

EN 374-4:2013 Protective gloves against chemicals and micro-organisms - Part 4: Determination of resistance to degradation by chemicals

I.S. EN 166:2002 - Personal Eye-protection - Specifications.

**Phrases used in s.2 and s.3:** H290: May be corrosive to metals.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.





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H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.