

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

### 1.1. Product identifier

Product name : **ACTOPOL P6**  
Product form : Mixture

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : Industrial  
For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

ACTON FINISHING LIMITED  
213 TORRINGTON AVENUE,  
COVENTRY,  
CV4 9HN,  
UNITED KINGDOM.

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E-mail: [enquiries@acton-finishing.co.uk](mailto:enquiries@acton-finishing.co.uk)

Web: [www.acton-finishing.co.uk](http://www.acton-finishing.co.uk)

### 1.4. Emergency telephone number

| Country               | Organisation/Company                                     | Address                                     | Emergency number   |
|-----------------------|--|---|--|
| IRELAND (REPUBLIC OF) | National Poisons Information Centre<br>Beaumont Hospital | Beaumont Hospital Beaumont Road<br>9 Dublin | : +353 1 8379964   |
| UNITED KINGDOM        | National Poisons Information Service (NHS Direct)        |   | 0845 4647 or 111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Eye Irrit. 2 H319

Repr. 1B H360

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Repr.Cat.2; R60

Repr.Cat.2; R61

Xi; R36

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : disodium tetraborate, decahydrate

Hazard statements (CLP) : H319 - Causes serious eye irritation

Precautionary statements (CLP)

- H360 - May damage fertility or the unborn child
- : P201 - Obtain special instructions before use
  - P202 - Do not handle until all safety precautions have been read and understood
  - P264 - Wash hands thoroughly after handling
  - P280 - Wear eye protection, face protection, protective clothing, protective gloves
  - P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - P308 + P313 - IF exposed or concerned: Get medical advice/attention
  - P337 + P313 - If eye irritation persists: Get medical advice/attention

**2.3. Other hazards**

No additional information available

## SECTION 3: Composition/information on ingredients

**3.1. Substance**

Not applicable

**3.2. Mixture**

| Name   | Product identifier  | %       | Classification according to Directive 67/548/EEC |
|--|---|---------|--|
| disodium tetraborate, decahydrate<br>substance listed as REACH Candidate (Disodium tetraborate, anhydrous) | (CAS No) 1303-96-4<br>(EC no) 215-540-4<br>(EC index no) 005-011-01-1 | 50 - 80 | Repr.Cat.2; R60<br>Repr.Cat.2; R61               |
| sodium carbonate   | (CAS No) 497-19-8<br>(EC no) 207-838-8<br>(EC index no) 011-005-00-2  | < 10    | Xi; R36  |
| tetrasodium ethylenediaminetetracetate   | (CAS No) 64-02-8<br>(EC no) 200-573-9<br>(EC index no) 607-428-00-2   | < 10    | Xn; R22<br>Xi; R41                               |

| Name                              | Product identifier  | Specific concentration limits  |
|-----------------------------------|---|--------------------------------|
| disodium tetraborate, decahydrate | (CAS No) 1303-96-4<br>(EC no) 215-540-4<br>(EC index no) 005-011-01-1 | (C >= 8,5) Repr. Cat. 2;R60-61 |

| Name   | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|---------|---|
| disodium tetraborate, decahydrate<br>substance listed as REACH Candidate (Disodium tetraborate, anhydrous) | (CAS No) 1303-96-4<br>(EC no) 215-540-4<br>(EC index no) 005-011-01-1 | 50 - 80 | Repr. 1B, H360FD  |
| sodium carbonate   | (CAS No) 497-19-8<br>(EC no) 207-838-8<br>(EC index no) 011-005-00-2  | < 10    | Eye Irrit. 2, H319  |
| tetrasodium ethylenediaminetetracetate   | (CAS No) 64-02-8<br>(EC no) 200-573-9<br>(EC index no) 607-428-00-2   | < 10    | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                   |

| Name                              | Product identifier  | Specific concentration limits |
|-----------------------------------|---|-------------------------------|
| disodium tetraborate, decahydrate | (CAS No) 1303-96-4<br>(EC no) 215-540-4<br>(EC index no) 005-011-01-1 | (C >= 8,5) Repr. 1B, H360FD   |

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

- First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries : May damage fertility or the unborn child.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
 Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
 Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
 Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.  
 Hygiene measures : Wash Skin thoroughly after handling.

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

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight., Heat and ignition sources.  
 Incompatible products : Strong bases. Strong acids.  
 Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| disodium tetraborate, decahydrate (1303-96-4) |                                       |                     |
|---|---------------------------------------|---------------------|
| Belgium                                       | Limit value (mg/m <sup>3</sup> )      | 2 mg/m <sup>3</sup> |
| Belgium                                       | Short time value (mg/m <sup>3</sup> ) | mg/m <sup>3</sup>   |
| France  | VME (mg/m <sup>3</sup> )              | 5 mg/m <sup>3</sup> |
| Italy - Portugal - USA ACGIH                  | ACGIH TWA (mg/m <sup>3</sup> )        | 2 mg/m <sup>3</sup> |
| Italy - Portugal - USA ACGIH                  | ACGIH STEL (mg/m <sup>3</sup> )       | 6 mg/m <sup>3</sup> |
| United Kingdom                                | WEL TWA (mg/m <sup>3</sup> )          | 5 mg/m <sup>3</sup> |

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.

Personal protective equipment

: Protective goggles. Gloves.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Respiratory protection

: Wear appropriate mask.

Other information

: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|  |                                  |
|--|----------------------------------|
| Physical state                             | : Solid                          |
| Appearance                                 | : Powder.                        |
| Colour                                     | : Colourless.                    |
| Odour                                      | : characteristic.                |
| Odour threshold                            | : No data available              |
| pH   | : > 12 10% solution              |
| pH solution                                | : 10 %                           |
| Relative evaporation rate (butylacetate=1) | : No data available              |
| Melting point                              | : 33 °C Looses water above 33° C |
| Freezing point                             | : No data available              |
| Boiling point                              | : No data available              |
| Flash point                                | : No data available              |
| Self ignition temperature                  | : No data available              |
| Decomposition temperature                  | : No data available              |
| Flammability (solid, gas)                  | : Non flammable.                 |
| Vapour pressure                            | : No data available              |
| Relative vapour density at 20 °C           | : No data available              |
| Relative density                           | : 1 - 1,5 ca.                    |
| Solubility                                 | : Water: 26 % w/w approximately  |
| Log Pow                                    | : No data available              |
| Log Kow                                    | : No data available              |
| Viscosity, kinematic                       | : No data available              |
| Viscosity, dynamic                         | : No data available              |
| Explosive properties                       | : No data available              |
| Oxidising properties                       | : No data available              |
| Explosive limits                           | : No data available              |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### disodium tetraborate, decahydrate (1303-96-4)

|                    |                       |
|--------------------|-----------------------|
| LD50 oral rat      | 2660 mg/kg (Rat)      |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |

#### sodium carbonate (497-19-8)

|                    |  |
|--------------------|--|
| LD50 oral rat      | 2800 mg/kg (Rat; Experimental value,Rat; Experimental value)         |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit; Experimental value,Rabbit; Experimental value) |

#### tetrasodium ethylenediaminetetracetate (64-02-8)

|               |                    |
|---------------|--------------------|
| LD50 oral rat | > 2000 mg/kg (Rat) |
|---------------|--------------------|

|   |   |
|---|---|
| Skin corrosion/irritation                           | : Not classified<br>Based on available data, the classification criteria are not met<br>pH: > 12 10% solution |
| Serious eye damage/irritation                       | : Causes serious eye irritation.<br>pH: > 12 10% solution   |
| Respiratory or skin sensitisation                   | : Not classified<br>Based on available data, the classification criteria are not met                          |
| Germ cell mutagenicity                              | : Not classified<br>Based on available data, the classification criteria are not met                          |
| Carcinogenicity                                     | : Not classified<br>Based on available data, the classification criteria are not met                          |
| Reproductive toxicity                               | : May damage fertility or the unborn child.   |
| Specific target organ toxicity (single exposure)    | : Not classified<br>Based on available data, the classification criteria are not met                          |
| Specific target organ toxicity (repeated exposure)  | : Not classified<br>Based on available data, the classification criteria are not met                          |
| Aspiration hazard                                   | : Not classified<br>Based on available data, the classification criteria are not met                          |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### disodium tetraborate, decahydrate (1303-96-4)

|   |  |
|---|--|
| LC50 fishes 1                             | 100 - 1000 mg/l (96 h; Pisces)                           |
| LC50 other aquatic organisms 1            | 100 - 1000 mg/l (96 h)                                   |
| EC50 Daphnia 1                            | 141 mg/l (48 h; Daphnia magna)                           |
| LC50 fish 2                               | 1900 mg/l (Pimephales promelas)                          |
| Threshold limit other aquatic organisms 1 | 100 - 1000,96 h; Protozoa; Anhydrous form                |
| Threshold limit other aquatic organisms 2 | 1 mg/l (72 h; Rana sp.)                                  |
| Threshold limit algae 1                   | 158 mg/l (96 h; Scenedesmus subspicatus; Anhydrous form) |

#### sodium carbonate (497-19-8)

|                                |                                      |
|--------------------------------|--------------------------------------|
| LC50 fishes 1                  | 300 mg/l (96 h; Lepomis macrochirus) |
| EC50 Daphnia 1                 | < 424 mg/l (48 h; Daphnia magna)     |
| EC50 other aquatic organisms 1 | 14 mg/l (168 h; Plankton)            |
| LC50 fish 2                    | 740 mg/l (96 h; Gambusia affinis)    |
| EC50 Daphnia 2                 | 265 mg/l (48 h; Daphnia magna)       |
| TLM fish 1                     | 300 ppm (96 h; Lepomis macrochirus)  |
| TLM other aquatic organisms 1  | 500 ppm (96 h; Daphnia magna)        |

| sodium carbonate (497-19-8) |                          |
|-----------------------------|--------------------------|
| Threshold limit algae 1     | 242 mg/l (5 days; Algae) |

| tetrasodium ethylenediaminetetracetate (64-02-8) |  |
|--|--|
| LC50 fishes 1                                    | 121 mg/l (96 h; Lepomis macrochirus; Soft water)   |
| EC50 Daphnia 1                                   | 625 mg/l (24 h; Daphnia magna)                     |
| LC50 fish 2                                      | 374 - 792 mg/l (96 h; Lepomis macrochirus; pH > 7) |
| Threshold limit algae 1                          | > 100 mg/l (72 h; Scenedesmus subspicatus; Growth) |

### 12.2. Persistence and degradability

| ACTOPOL P6                    |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| disodium tetraborate, decahydrate (1303-96-4) |  |
|---|--|
| Persistence and degradability                 | Biodegradability: Not applicable. Biodegradability in soil: Not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD)               | Not applicable   |
| Chemical oxygen demand (COD)                  | Not applicable   |
| ThOD  | Not applicable   |
| BOD (% of ThOD)                               | Not applicable   |

| sodium carbonate (497-19-8)     |   |
|---------------------------------|---|
| Persistence and degradability   | Biodegradability: Not applicable. Low potential for adsorption in soil. |
| Biochemical oxygen demand (BOD) | Not applicable  |
| Chemical oxygen demand (COD)    | Not applicable  |
| ThOD                            | Not applicable  |
| BOD (% of ThOD)                 | Not applicable  |

| tetrasodium ethylenediaminetetracetate (64-02-8) |   |
|--|---|
| Persistence and degradability                    | Not readily biodegradable in water.       |
| Biochemical oxygen demand (BOD)                  | < 0,002 g O <sup>2</sup> /g substance     |
| Chemical oxygen demand (COD)                     | 0,54 - 0,58 g O <sup>2</sup> /g substance |

### 12.3. Bioaccumulative potential

| ACTOPOL P6                |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| disodium tetraborate, decahydrate (1303-96-4) |                      |
|---|----------------------|
| Bioaccumulative potential                     | Not bioaccumulative. |

| sodium carbonate (497-19-8) |                      |
|-----------------------------|----------------------|
| Bioaccumulative potential   | Not bioaccumulative. |

| tetrasodium ethylenediaminetetracetate (64-02-8) |                                  |
|--|----------------------------------|
| Log Pow  | -2,6                             |
| Bioaccumulative potential                        | Bioaccumulation: Not applicable. |

### 12.4. Mobility in soil

| disodium tetraborate, decahydrate (1303-96-4) |   |
|---|---|
| Ecology - soil                                | May be harmful to plant growth, blooming and fruit formation. |

### 12.5. Results of PBT and vPvB assessment

| disodium tetraborate, decahydrate (1303-96-4)                                |  |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH, annex XIII.  |  |
| This substance/mixture does not meet the vPvB criteria of REACH, annex XIII. |  |

### 12.6. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a licensed waste centre in accordance with local/regional/national/international regulations.

Ecology - waste materials

: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not dangerous goods in terms of transport regulations

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

|   |                                   |
|---|-----------------------------------|
| 3.b. Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10   | sodium carbonate                  |
| 30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Toxic to Reproduction category 1A or 1B (Table 3.1) or Toxic to Reproduction category 1 or 2 (Table 3.2) and listed as follows: Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5 Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6 | disodium tetraborate, decahydrate |

Contains REACH Candidate List substance(s): Disodium tetraborate, anhydrous (EC 215-540-4, CAS 1303-96-4)

#### 15.1.2. National regulations

Water hazard class (WGK) : 2 - hazardous to water

WGK remark : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases::

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4             |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1 |

|              |   |
|--------------|---|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2     |
| Repr. 1B     | Reproductive toxicity, Category 1B                |
| Repr. 1B     | Reproductive toxicity, Category 1B                |
| H302         | Harmful if swallowed                              |
| H318         | Causes serious eye damage                         |
| H319         | Causes serious eye irritation                     |
| H360         | May damage fertility or the unborn child          |
| H360FD       | May damage fertility. May damage the unborn child |
| R22          | Harmful if swallowed                              |
| R36          | Irritating to eyes                                |
| R41          | Risk of serious damage to eyes                    |
| R60          | May impair fertility                              |
| R61          | May cause harm to the unborn child                |
| Xi           | Irritant  |
| Xn           | Harmful   |

SDS EU AF

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*