



## SAFETY DATA SHEET PENSOL

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

#### 1.1. Product identifier

Product name PENSOL

Product number 178GL

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

Identified uses Caustic Alkali Booster

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

Supplier GILLMAN'S COMMERCIAL.  
Mercia Road,  
St. Oswald's Road  
Gloucester  
GL1 2SG  
01452 509050

#### 1.4. Emergency telephone number

Emergency telephone 01452 509050 (08.30 - 17.30hr Monday - Friday)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Irrit. 2 - H319 Eye Dam. 1 - H318

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) C;R35.

#### 2.2. Label elements

##### Hazard pictograms



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.

# PENSOL

|  |   |
|--|---|
| <b>Precautionary statements</b>  | P260 Do not breathe vapour/ spray.  |
|  | P264 Wash contaminated skin thoroughly after handling.  |
|  | 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 or shower.                           |
|  | 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. |
|  | P310 Immediately call a POISON CENTER/ doctor.  |
|  | P321 Specific treatment (see medical advice on this label).   |
|  | P337+P313 If eye irritation persists: Get medical advice/ attention.  |
|  | P363 Wash contaminated clothing before reuse.   |
| P405 Store locked up.  |   |
| P501 Dispose of contents/ container in accordance with national regulations. |   |

**Contains** SODIUM HYDROXIDE

## 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

|  |  |  |
|--|--|--|
| <b>SODIUM HYDROXIDE</b> <span style="float: right;"><b>10-30%</b></span>                       |  |  |
| CAS number: 1310-73-2  | EC number: 215-185-5                             | REACH registration number: 01-2119457892-27-XXXX |
| <b>Classification</b>  | <b>Classification (67/548/EEC or 1999/45/EC)</b> |  |
| Met. Corr. 1 - H290  | C;R35  |  |
| Skin Corr. 1A - H314   |  |  |
| Eye Dam. 1 - H318  |  |  |
| <b>TETRASODIUM, ETHYLENEDIAMINETETRAACETATE</b> <span style="float: right;"><b>1-5%</b></span> |  |  |
| CAS number: —  | EC number: 200-573-9                             | REACH registration number: 01-2119486762-27-XXXX |
| <b>Classification</b>  | <b>Classification (67/548/EEC or 1999/45/EC)</b> |  |
| Met. Corr. 1 - H290  | Xn;R20/22. Xi;R38,R41.                           |  |
| Acute Tox. 4 - H332  |  |  |
| Skin Irrit. 2 - H315   |  |  |
| Eye Dam. 1 - H318  |  |  |
| STOT RE 2 - H373   |  |  |
| <b>AMINO-TRI(METHYLENE PHOSPHONIC ACID)</b> <span style="float: right;"><b>1-5%</b></span>     |  |  |
| CAS number: 6419-19-8  | EC number: 229-146-5                             |  |
| <b>Classification</b>  | <b>Classification (67/548/EEC or 1999/45/EC)</b> |  |
| Eye Irrit. 2 - H319  | Xi;R36.  |  |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

## PENSOL

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.   |
| <b>Ingestion</b>    | Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately. |
| <b>Skin contact</b> | Remove affected person from source of contamination. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention.  |
| <b>Eye contact</b>  | Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.   |

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

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | Unlikely to occur   |
| <b>Ingestion</b>           | May cause chemical burns in mouth and throat.   |
| <b>Skin contact</b>        | Burning pain and severe corrosive skin damage.  |
| <b>Eye contact</b>         | May cause blurred vision and serious eye damage.  |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

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

**Hazardous combustion products** None at ambient temperatures.

### **5.3. Advice for firefighters**

**Protective actions during firefighting** Avoid breathing fire gases or vapours.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### **6.2. Environmental precautions**

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Stop leak if possible without risk. DO NOT touch spilled material! Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid contamination of ponds or watercourses with washing down water.

### **6.4. Reference to other sections**

## **SECTION 7: Handling and storage**

# PENSOL

## 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes.

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

**Storage class** Corrosive storage.

## 7.3. Specific end use(s)

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Ingredient comments** OES = Occupational Exposure Standard.

##### TETRASODIUM, ETHYLENEDIAMINETETRAACETATE

**DNEL** Industry - Inhalation; Long term systemic effects: 2.5 mg/m<sup>3</sup>  
 Industry - Dermal; Long term systemic effects: 1.5 mg/m<sup>3</sup>  
 Industry - Oral; Long term systemic effects: 25 mg/kg/day

**PNEC** Industry - Fresh water; Long term 2.2 mg/l  
 Industry - marine water; Long term 0.22 mg/l  
 Industry - Intermittent release; Long term 1.2 mg/l  
 Industry - STP; Long term 43 mg/l  
 Industry - Soil; Long term 0.72 mg/l

#### 8.2. Exposure controls

##### Protective equipment



##### Eye/face protection

The following protection should be worn: Full face visor or shield.

##### Hand protection

Use full length gloves.

##### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

##### Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

### SECTION 9: Physical and chemical properties

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

**Appearance** Liquid. Clear liquid.

**Colour** Colourless to straw

**Relative density** 1.280 - 1.300 @ °C

**Solubility(ies)** Miscible with water.

# PENSOL

## 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react violently with the product: Acids.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Gives off Hydrogen by reaction with base metals such as zinc and aluminium. Exothermic reaction with water and with acids.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with acids.

#### 10.5. Incompatible materials

**Materials to avoid** DO NOT use on aluminium, zinc and other similar metals

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Irritating fumes carried by fire

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** No information available.

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 846.15384615

**Inhalation** No significant hazard at normal ambient temperatures. Heating may generate the following products: Corrosive gases or vapours.

**Ingestion** May cause severe internal injury.

**Skin contact** Causes severe burns.

**Eye contact** Causes burns.

### SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment.

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### 12.2. Persistence and degradability

**Persistence and degradability** The product contains mainly inorganic substances which are not biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not expected to bioaccumulate

#### 12.4. Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems.

#### 12.5. Results of PBT and vPvB assessment

# PENSOL

## 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

**General** Wear protective clothing as described in Section 8 of this safety data sheet.

#### 14.1. UN number

**UN No. (ADR/RID)** 1824

**UN No. (IMDG)** 1824

**UN No. (ICAO)** 1824

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (IMDG)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (ICAO)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (ADN)** SODIUM HYDROXIDE SOLUTION

#### 14.3. Transport hazard class(es)

**ADR/RID class** 8

**ADR/RID label** 8

**IMDG class** 8

**ICAO class/division** 8

#### Transport labels



#### 14.4. Packing group

**ADR/RID packing group** II

**IMDG packing group** II

**ICAO packing group** II

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

#### 14.6. Special precautions for user

**Emergency Action Code** 2X

**Hazard Identification Number (ADR/RID)** 80

**Tunnel restriction code** (E)

# PENSOL

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

### SECTION 15: Regulatory information

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

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

|                                  |  |
|----------------------------------|--|
| <b>General information</b>       | This information is given in good faith and is based upon current available data. The suitability of this product for any particular use is not suggested. The user must determine if the product is correct for any particular application. This document is not a specification. |
| <b>Revision date</b>             | 07/05/2019   |
| <b>Revision</b>                  | 03   |
| <b>Supersedes date</b>           | 07/11/2017   |
| <b>SDS number</b>                | 178GL  |
| <b>Risk phrases in full</b>      | R20/22 Harmful by inhalation and if swallowed.<br>R35 Causes severe burns.<br>R36 Irritating to eyes.<br>R38 Irritating to skin.<br>R41 Risk of serious damage to eyes.  |
| <b>Hazard statements in full</b> | H290 May be corrosive to metals.<br>H314 Causes severe skin burns and eye damage.<br>H315 Causes skin irritation.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.  |