1. INFORMATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION
PANGEL HV, PANGEL S-15, PANGEL S-9, PANGEL FF, PANGEL C-150, PANSIL, PANSIL 2, PANSIL 100, PANSIL 400, SEPIOLITE 4/7, SEPIOLITE 6/15, SEPIOLITE 6/30, SEPIOLITE 15/30, SEPIOLITE 16/35, SEPIOLITE 30/60, SEPIOLITE 60/120, SEPIOLITE ABSORBENT 615, SEPIOLITE ABSORBENT 630, SEPIOLITE ABSORBENT 1530, SEPIOLITE ABSORBENT 3060, SEPIOLITE ABSORBENT 60120, SEPIOLITE-100, EXAL, EXAL-H, EXAL 30/60, EXAGEL, CRUDE ORE, SEPIOLITE-20, PANGEL S-9 (FRICITION)

1.2. COMPANY/UNDERTAKING IDENTIFICATION
TOLSA, S.A.
NUÑEZ DE BALBOA, 51
MADRID 28001, SPAIN
91-3220100

1.3. EMERGENCY TELEPHONE NUMBER
91-3220110

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1. COMPOSITION
Common Name: Sepiolite
Chemical Name: Hydrated magnesium silicate
Formula: $\text{Si}_{12}\text{Mg}_8\text{O}_{30}(\text{OH})_4(\text{OH}_2)_4.8\text{H}_2\text{O}$
Product CAS: 63800-37-3

3. HAZARDS IDENTIFICATION

This product can generate nuisance dust.

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>PEL-OSHA</th>
<th>TLV-ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrated magnesium silicate</td>
<td>15 mg/m$^3$</td>
<td>10 mg/m$^3$</td>
</tr>
<tr>
<td></td>
<td>Total dust</td>
<td>Total dust</td>
</tr>
<tr>
<td></td>
<td>5 mg/m$^3$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Respirable fraction</td>
<td></td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**EYE CONTACT:** Flush eyes with plenty of water. If irritation persists seek medical advice.

**SKIN CONTACT:** Procedures normally not needed.

**INHALATION:** Move to fresh air.

**INGESTION:** Procedures normally not needed.

5. FIRE-FIGHTING MEASURES

Sepiolite is a clay mineral product and it will not burn.

No special fire fighting procedures are needed for sepiolite products.

6. ACCIDENTAL RELEASE MEASURES

Sweep up accidental spillages by using equipment such as a vacuum cleaner to avoid generating dust, and store in closed containers prior to disposal.

7. HANDLING AND STORAGE

7.1. **HANDLING**

Avoid generating dust in handling. Use with adequate ventilation to maintain dust levels below PEL and TLV. Use approved dust mask if exposure exceeds TLV.

7.2. **STORAGE**

Store in dry conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **VENTILATION**

General or local exhaust ventilation sufficient to maintain dust levels below PEL and TLV.

8.2. **RESPIRATORY PROTECTION**

Dust masks.

8.3. **HAND PROTECTION**

Not required.

8.4. **EYE PROTECTION**

Recommended safety goggles, but not required.

8.5. **SKIN PROTECTION**

Not required.
# 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>METHOD</th>
</tr>
</thead>
</table>

## 9.1. FORM:
Granules, or powder

## 9.2. COLOUR:
Light-cream

## 9.3. ODOUR:
Odorless

## 9.4. pH-VALUE:
8,5 ± 0,5 (100 g/l H₂O, 20° C)

## 9.5. MELTING POINT:
1.550° C

## 9.6. BOILING POINT:
Not applicable

## 9.7. FLASH POINT:
Not applicable

## 9.8. FLAMMABILITY:
Non flammable

## 9.9. AUTOFLAMMABILITY:
Not applicable

## 9.10. EXPLOSIVE PROPERTIES:
Not applicable

## 9.11. VAPOUR PRESSURE:
Not applicable

## 9.12. RELATIVE DENSITY:
2,1 (H₂O = 1)

## 9.13. SOLUBILITY
- a) WATER SOLUBILITY: Insoluble
- b) FAT SOLUBILITY: Insoluble

## 9.14. PARTITION COEFFICIENT:
Not applicable

## 9.15. FURTHER DATA
- a) THERMAL DECOMPOSITION: Not applicable

# 10. STABILITY AND REACTIVITY

Generally considered stable.

## 10.1. CONDITIONS TO AVOID
None expected.

## 10.2. MATERIALS TO AVOID
None expected.

## 10.3. HAZARDOUS DECOMPOSITION PRODUCTS
No hazardous decomposition or by-products are expected.
### 11. TOXICOLOGY INFORMATION

#### 11.1 ROUTES OF ENTRY

| Eyes? | NO | Skin? | NO | Inhalation? | YES | Ingestion? | NO |

#### 11.2. EFFECTS OF OVEREXPOSURE

- **EYE CONTACT:** May cause mechanical irritation if exposed to large amounts of dust.
- **SKIN CONTACT:** No adverse effects expected.
- **INHALATION:** May cause irritation of the respiratory tract.
- **INGESTION:** No adverse effects expected.

#### 11.3. CARCINOGENICITY

IARC has determined that there is no data of evidence of carcinogenicity to humans and inadequate evidence of carcinogenicity to experimental animals (Class 3).

The epidemiological studies as well as the in vitro and in vivo studies on sepiolite produced by TOLSA have demonstrated no carcinogenic effects.

### 12. ECOLOGICAL INFORMATION

Sepiolita is a naturally occurring clay mineral with no adverse effects on the environment.

The manufacture of these sepiolite-based products does not produce polluting wastes and does not alter the environment.

### 13. DISPOSAL CONSIDERATION

This material does not require special disposal method. However spent material may be contaminated with the absorbed products and may require special disposal methods. Consult with appropriate regulatory authorities.

### 14. TRANSPORT INFORMATION

#### 14.1. GGVSee/IMDG CODE

#### 14.2. GGVE/GGVVS

#### 14.3. UN No.

#### 14.4. RID/ADR

#### 14.5. ICAO/IATA-DGR

#### 14.6. ADNR

---

1.1. **PRODUCT:** PANGEL HV, PANGEL S-15, PANGEL S-9, PANGEL SCP, PANGEL SC, PANGEL FF, PANGEL C-150, PANSIL, PANSIL 2, PANSIL 100, PANSIL 4000, SEPIOLITE 4/7, SEPIOLITE 6/15, SEPIOLITE 6/30, SEPIOLITE 15/30, SEPIOLITE 16/35, SEPIOLITE 30/60, SEPIOLITE 30/60D, SEPIOLITE 60/120, SEPIOLITE ABSORBENT 615, SEPIOLITE ABSORBENT 630, SEPIOLITE ABSORBENT 1530, SEPIOLITE ABSORBENT 3060, SEPIOLITE ABSORBENT 60120, SEPIOLITE – 100, EXAL, EXAL-H, EXAL 30/60, EXAGEL, CRUDE ORE, SEPIOLITE – 20, PANGEL S-9 (FRICTION)
1.1. PRODUCT: PANGEL HV, PANGEL S-15, PANGEL S-9, PANGEL SCP, PANGEL SC, PANGEL FF, PANGEL C-150, PANSIL, PANSIL 2, PANSIL 100, PANSIL 4000, SEPIOLITE 4/7, SEPIOLITE 6/15, SEPIOLITE 6/30, SEPIOLITE 15/30, SEPIOLITE 16/35, SEPIOLITE 30/60, SEPIOLITE 30/60D, SEPIOLITE 60/120, SEPITOL ABSORBENT 615, SEPITOL ABSORBENT 630, SEPITOL ABSORBENT 1530, SEPITOL ABSORBENT 3060, SEPITOL ABSORBENT 60120, SEPIOLITE – 100, EXAL, EXAL-H, EXAL 30/60, EXAGEL, CRUDE ORE, SEPIOLITE – 20, PANGEL S-9 (FRICCTION)