

MATERIAL SAFETY DATA SHEET

(ACCORDING TO DIRECTIVE 91/155/EEC)

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, 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 (FRICTION)

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: $\text{Si}_{12}\text{Mg}_8\text{O}_{30}(\text{OH})_4(\text{OH}_2)_4 \cdot 8\text{H}_2\text{O}$
Product CAS: 63800-37-3

3. HAZARDS IDENTIFICATION

This product can generate nuisance dust.

INGREDIENT	PEL-OSHA	TLV-ACGIH
Hydrated magnesium silicate	15 mg/m ³	10 mg/m ³
	Total dust	Total dust
	5 mg/m ³	
	Respirable fraction	

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	
	METHOD
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 H ₂ O, 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	(H ₂ O = 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

Sepiolite 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/GGVS

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, 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 (FRICTION)

15. REGULATORY INFORMATION

Refer to point 3 for TLV and PEL. Other national regulations for sepiolite, nuisance dust or particles not otherwise classified (PNOC) may be applicable.

16. OTHER INFORMATION

The information and recommendation contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

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 (FRICTION)