

Safety data sheet (SDS) in accordance with Reg. 1907/2006/CE - 830/2015/CE

TB 12, TB 15, TB 20, TB30, TB40, TB50, TB60, TB70, TB80, TB ALFA, TB FORM, GESSO CHIRURGICO, GR BETA

Revision date: 11/11/2015

1 Identification of the mixture and the company

1.1 Product identifier

TB12, TB15, TB20, TB30, TB40, TB50, TB60, TB70, TB 80, TBALFA, TB SUPER, TB FORM, GESSO CHIRURGICO, GR BETA

1.2 Relevant identified uses of the mixture and uses advised against

Gypsum plaster for general use: for ceramic industry, pottery plaster, statuary plaster, orthopedic plaster
Identified uses: industrials and professionals, consumer use. No uses advised against

1.3 Details of the supplier of the data sheet

GESSI ROCCASTRADA srl Loc. Tamburino snc I- 58036 Roccastrada (GR)
Tel:+39(0)564564511 Fax:+39(0)564564532, e-mail of the responsible person: piergiorgio.sordi@gessiroccastrada.com

1.4 Emergency telephone number

+39(0)564564511 (available only available during office hours)
European Emergency Call: 112

2 Hazard identification

2.1 Classification of the substance on ingredients

This substance is not classified as dangerous according to 67/548/EEC.

2.2 Label elements

This substance is not labelled according Regulation (EC) n. 1272/2008 [CLP]

2.3 Other hazards

No special remarkable hazards.

3 Composition / Information on ingredient

Ingredient	formula	CAS	N° EINECS	purity
Calcium sulphate	CaSO ₄ ·nH ₂ O (n=0, 1/2, 2)	7778-18-9 e 10034-76-1	231-900-3	>95% w/w

REACH registration number: 01-2119444918-26-0198

The product is a mixture of Calcium sulphate hemihydrate (CAS 10034-76-1) and Anhydrite (CAS 778-18-9)

4 First aid measures

4.1 Description of first measures

General notes

No adverse effects are expected during normal use of the substance, however if any effects do appear the following recommendations apply.

After eye contact

Wash eye with clean water. Seek medical advice if irritation persists

After skin contact

Wash off immediately with soap and water

After inhalation

Remove person to fresh air. Ensure supply of fresh air

After ingestion

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No specific symptoms or effects have been reported

4.3 Identification of any immediate medical attention and special treatment needed

Not applicable. Bring this document if you contact a doctor

5 Firefight measures

5.1 Extinguishing media

Non combustibile. Use extinguishing media appropriate for surrounding fire

5.2 Special hazards arising from the mixture

The products are fire resistant, but packaging may burn

5.3 Advice for fire-fighters

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
 Special protective equipment for fire-fighters: None.

6 Accidental release measures

6.1 Personal precaution, protective equipment and emergency procedures

Avoid contact with eyes and skin. Use protective goggles and gloves. See Sections 7 and 8

6.2 Environmental precaution

Keep out of drains, sewers, ditches and waterways

6.3 Methods and material for contained and clearing up

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal

6.4 Reference to other sections

Protective measures in section 8. Disposal measures in section 13

7 Handling and storage

7.1 Precautions for a safe handling

Avoid contact with skin and eyes. Minimise and control dust when mixing products in confined spaces

7.2 Condition for safe storage, including any compatibilities

Store in a covered, dry, climate controlled area. Keep container closed

7.3 Specific end use

Manufacture of special plaster, surgical and dental work – see section 1.2

8 Exposure controls / personal protection

8.1 Control parameters, occupational exposure limits

		State	TWA/8h
Calcium sulphate	OSHA	USA	5 mg/m ³ dust, respirable
	OSHA	USA	15 mg/m ³ dust, inhalable

8.2 Exposure controls / personal protection

General protective and hygiene measures

Do not eat or drink during work. Avoid contact with eyes and skin. Minimise and control dust

Respiratory protection

If dust cannot be controlled, wear a half face mask conforming to EN 149

Skin protection

Wear gloves to avoid prolonged or repeat contact

Eye protection

Wear safety goggles conforming to EN 166

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

<i>Physical state:</i>	Solid, powder granulate
<i>Colour</i>	white
<i>Odour</i>	Odourless
<i>Odour threshold</i>	No odour threshold, odourless
<i>pH</i>	6 – 8 in aqueous solution 20 °C
<i>Melting point</i>	1450 °C
<i>Boiling point</i>	Not applicable
<i>Boiling rate</i>	Not applicable as under normal atmospheric conditions
<i>Flash point</i>	Not applicable as is not a liquid
<i>Evaporation rate</i>	Not applicable as is not a liquid
<i>Flammability</i>	Not applicable as is a solid which is not combustible
<i>Lower flammability limit</i>	Not applicable as is not a flammable gas
<i>Upper flammability limit</i>	Not applicable as is not a flammable gas
<i>Lower explosive limit</i>	Not applicable as is not a flammable gas
<i>Upper explosive limit</i>	Not applicable as is not a flammable gas
<i>Vapour pressure</i>	Not applicable as melting point is 1450 °C
<i>Vapour density</i>	Not applicable as melting point is 1450 °C
<i>Bulk density</i>	0,7 – 1,3 kg/l
<i>Water solubility</i>	about 2 g/l (20 °C in g/l)
<i>Partition coefficient n-Octanol/Water</i>	Not applicable as is inorganic product
<i>Auto ignition temperature</i>	Not applicable
<i>decomposition Temperature (°C)</i>	into CaSO ₄ + H ₂ O about 700 °C, into CaO + SO ₃ about 1.000 °C
<i>Viscosity</i>	Not applicable as not liquid
<i>Explosive properties</i>	Not explosive
<i>Oxidizing properties</i>	Not oxidizing as does not cause or contribute to the combustion

9.2 Other informations

None

10 **Stability and reactivity**

10.1 **Reactivity**

Products harden with water. No materials to avoid known.

10.2 **Chemical stability**

Keep dry. Stabile under normal storage conditions.

10.3 **Possibility of hazardous reactions**

Mixing with an aqueous solution of sodium carbonate will result in the formation of carbon dioxide

10.4 **Conditions to avoid**

Stable if stored in dry conditions

10.5 **Incompatible materials**

No incompatible materials known

10.6 **Hazardous decomposition products**

Decomposition takes place from temperatures above 1450 °C

11 **Toxicological information**

11.1 **Information on toxicological effects**

No toxicological test has been completed on the product itself

LD/LD50 Calcium Sulphate, main component

Acute oral toxicity: LD50 oral rat > 1581 mg/kg - according to guideline OECD 420

Acute inhalative toxicity: LD50 oral rat > 2,61 mg/L - according to guideline OECD 403

Skin irritation: No irritation for rabbit - according to guideline OECD 404

Sensitization

No effect anticipated

12 **Ecological information**

12.1 **Toxicity**

After neutralisation, toxicity is no longer observed.

12.2 **Persistence and degradability**

The product hydrolyses quickly in the presence of water to: Calcium and Sulfate Ions The individual components are poorly eliminated from water.

12.3 **Bioaccumulative potential**

No indication to bioaccumulation potential. The ecological data were measured on the hydrolysed product. According to experiences this product is inert and not degradable biologically

12.4 **Mobility in soil**

Water-soluble solid. Natural constituent in soils. If product enters soil, it will be mobile and may contaminate groundwater

12.5 **Results of PBT and vPvB assessment**

This product does not meet the criteria for classification as PBT or vPvB.

12.6 **Other adverse effects**

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely

13 **Disposal considerations**

13.1 **Waste treatment methods**

Keep out of drains, sewers, ditches and waterways. Wastes from gypsum are normally classified as not hazardous. Do not co-dispose with municipal waste, but dispose at an authorized site in accordance with local Environmental Regulations. In EC use European Waste Code 17 08 02.

Not contaminated packaging can be recycled.

14 **Transport information**

Not classified as dangerous in terms of transport regulations (IMDG, ADR, RID, IACO/IATA)

14.1 **NU number**

Not to apply

14.2 **NU proper shipping name**

Not to apply

14.3 **Transport hazard class**

Not to apply

14.4 **Packing group**

Not to apply

14.5 **Environmental hazard**

Not to apply

14.6 **Special precaution for users**

Not to apply

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

Not to apply

15 Regulation information

15.1 Safety, health and environment regulations/legation specific for the mixture

This Safety Data Sheet complies with Regulation (EC) 1907/2006 – (REACH) and successive modifications

National Regulations

Italy

Decreto Legislativo n. 81/2008

Users must observe the measures of their own workplace health and safety risk assessment. Regarding personal protection devices, see Section 8

15.2 Chemical safety assessment

No safety assessment has been accomplished on the product itself.

16 Other information

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This SdS refers to the legal requirements in Italy

Products trade name: TB12, TB15, TB20 and GR BETA conform to EN 13279-1:2008 - *Gypsum binders and gypsum plasters. Definitions and requirements*

16.1 List of modify / indication of changes

This Safety data Sheet has been modified to comply with:

- Regulation (EC) 830/2015
- Regulation (EC) 1272/2008

Changes in section 9

16.2 Abbreviations and Acronyms

ACGIH:	American Conference of Industrial Hygienists
TLV:	Threshold limit value
TWA :	Time Weighted Average
LD50 :	Median lethal dose
OECD:	Organisation for Economic Cooperation and Development
PBT:	Persistent, Bioaccumulative, Toxic chemical
vPvB:	very Persistent, very Bioaccumulative chemical
IMDG:	International Maritime Dangerous Goods
ADR:	Agreement on the transport of Dangerous goods by Road
RID:	Regulations on the International transport of Dangerous goods by Rail
IATA:	International Air Transport Association