



TOROWHITE

ENGINEERED FUNCTIONAL ADDITIVES

MATERIAL SAFETY DATA SHEET

ING 04

CALCIUM SULFATE ANHYDRITE

1. SUBSTANCE / MIXTURE IDENTIFICATION AND COMPANY INFORMATION

1.1 Product identification:

Trade Name	ING 04
Name of the Substance	Calcium Sulfate Anhydrite
Chemical Name	Calcium Sulfate Anhydrous
Formula	CaSO ₄
Synonyms	Ground Natural Gypsum
CAS-No	7778-18-9
EC-No	231-900-3
REACH No	Not applicable

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

Use of the Substance	Filler, additive, intermediate product, processing aid, absorption and absorption agent for gases or liquids.
Relevant Identified Uses	Industrial use, use by private consumers, research, commercial use, analytics, scientific education.
Uses advised against	Any different from advised uses.

1.3 Details of the supplier providing the material safety data sheet:

Company Name	Toro Gips S.L.
Factory Address	Polígono Industrial San Cristóbal, parcelas 3.1 y 3.2, 44540 Albalate del Arzobispo (Teruel) SPAIN
Email	info@torowhite.com
Telephone number	+34 93 481 45 35
Homepage	www.torowhite.com

1.4 Emergency number: Instituto Nacional de Toxicología y Ciencias Forenses (INTCF) +34 917689800

2. POTENTIAL HAZARDS

2.1 Classification of the substance or mixture:

Under Regulation (CE) No. 1272/2008: The substance has been classified as not hazardous. The product has not been classified according to CLP-regulation.



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2.2 Labelling elements:

Labelling according to (CE) N° 1272/2008	Not applicable
Hazard pictograms	None
Signal word	None
Safety information	None
Hazards information	None

2.3 Combust Dust hazard:

The National Fire Protection Association has not assigned a flammability rating to calcium sulfate; this substance is not combustible.

Dust explosion class	0; No explosion*
Flash point	Not applicable
Autoignition temperature	Not applicable
Flammable limits in air	Not applicable

*OSHA CPL 03-00-008 – Combustible Dust National Emphasis Program

2.4 Other hazards:

PBT and vPvB measurements are not applicable. In any case, please note the information of the Safety Data Sheet.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical name	Calcium Sulfate Anhydrous
Formula	CaSO ₄
Molecular weight:	136,2 g/mol
CAS No.	7778-18-9
EINECS No.	231-900-3
Stabilizers	None
Contaminations	No contamination in relevant quantity for labeling and classification.
SCL/ M-factor/ ATE	Not applicable

3.2 Mixtures: Not applicable.



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4. FIRST AID MEASURES

4.1 Description of first aids measures:

General information	No adverse effects when the substance is used as specified.
After inhalation	Fresh air. Consult a physician in case of doubt or when complaints appear.
After skin contact	Wash off skin with water and soap. Consult a physician in case of doubt or when complaints appear.
After eyes contact	Rinse eyes carefully with water during several minutes. Consult a physician in case of doubt or when complaints appear.
After ingestion	Rinse out your mouth and drink plenty of water. Seek medical assistance.
Personal protective information for first aider	Skin compatible neutral salt. Soluble dust. No allergic reactions known.

4.2 Most important symptoms and effects, both acute and delayed:

No specific symptoms or effects known.

4.3 Information of any immediate medical attention and special treatment needed:

No additional relevant information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing agents:

General information	The product itself is non-combustible. In the event of surrounding fire, the following needs to be observed.
Suitable extinguishing agents	Extinguishers: chemical powder, dry powder, foam and CO ₂ .
Unsuitable extinguishing agents	There is no limitation on types of extinguishers to be used.

5.2 Special hazards arising from the substance or mixture:

Decomposition sets at temperatures above 1450°C and sulfur oxide (SO₃) could appear.

5.3 Advice for firefighters:

The substance is not combustible. Wear self-contained breathing apparatus and fight fire from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

6.1 Description of first aids measures:

For non-emergency personnel	Avoid dust inhalation and ensure enough ventilation. The substances form slippery surfaces when combined with water.
For emergency responders	There are no additional requirements.

6.2 Environmental precautions: No special environmental protection measures needed.

6.3 Methods and material for containment and cleaning up:

Treat the recorded material in accordance with the disposal section.

6.4 Reference to other sections: Exposure control.



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7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Precautions	Avoid dust formation and contact with eyes.
Fire protection measures	The product itself is non-combustible. No special measures needed.
Measures to prevent emissions	If technically feasible, use equipment with local evacuation.
Advice relating to general industrial hygiene	Do not eat, drink or smoke at the workplace. Wash hands before breaks and after work. Don't wear work clothing outside the workplace.

7.2 Conditions for safe storage, including incompatibilities:

Technical requirements and storage conditions	Store in a dry place. No further specific requirements.
Incompatible materials to store with	Store according to local regulations. The substance is excluded from the scope
Storage category	Non-flammable solid material (LGK 13) [storage category]

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters:

VLA – ED^[1]: 10 mg/m³ for particulate matter without asbestos and less than 1% in crystalline silica.

8.2 Exposure controls:

Appropriate engineering controls	Ensure enough ventilation and no dust formation.
Respiratory protection	No protection is needed if appropriate engineering controls are executed. In case of dust formation use a filtered mask PPF type.
Hand protection	In case of prolonged or repeated use wear protective gloves (latex or nitrile).
Body protection	Wear working clothes.
Eye protection	Wear safety glasses.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state	Solid powder
Colour	White
Odour	Natural
Odour threshold	Not applicable
pH in aqueous solutions (20°C)	10.0 - 11.0
Melting point/freezing point	1450°C
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	No information available
Flammability	No information available
Lower flammability limit	Not applicable
Upper flammability limit	Not applicable
Vapour density	Not applicable
Relative density	Approximately: 2 - 4 g/cm ³
Solubility (water)	Approximately: 2,32 g/l at 20°C in CaSO ₄ · 2 H ₂ O
Partition coefficient n-octanol	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Above 1450°C it decomposes into CaO and SO ₃
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
Particle characteristics	Medium particle size is upper to 1 µm according to Mie theory

[1] Occupational exposure limit value daily exposure. From Instituto Nacional de Seguridad y Salud en el Trabajo, 2018.

9.2 Other information: None



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10. STABILITY AND REACTIVITY

Reactivity: No additional relevant information available.

Chemical stability: No thermal decomposition when handled and stored as specified.

Possibility of hazardous reactions: No hazardous reactions are known.

Conditions to avoid: Contamination with sulfur-reducing bacteria and water under anaerobic conditions should be avoided.

Incompatible materials: None known.

Hazardous decomposition products: At temperatures above 1450°C it decomposes into Calcium oxide and Sulfur trioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Repeated or prolonged contact may cause removal of the natural fat from the skin resulting in nonallergic contact dermatitis and absorption through the skin. If spattered into the eyes may cause irritation and irreversible damage.

11.2 Relevant hazard class	Effect dose	Species	Method	Remark
Acute toxicity	<u>Oral:</u> LD50 > 1581 mg/kg bw <u>Inhalation:</u> LC50 > 2,61 mg/L	Rat	OECD 420 OECD 403	Not classified Maxim dose that can be administrated
Irritant/corrosive effects on skin	Not applicable	N/A	OECD 404	Not irritating to skin
Acute damage/ irritation to eyes	Not applicable	Rabbit	OECD 405	Not irritating to eyes
Germ cell mutagenicity	Not applicable	Bacteria	Experimental study	Mutation did not occur
Carcinogenicity	No classification under CLP regulation based on evidence from genotoxicity studies and repeated doses			
Reproduction toxicity	NOAEL 790 mg/kg bw	Rat	OECD 422	No signs for reproductive toxicity observed.

12. ENVIRONMENTAL INFORMATION

Toxicity: No relevant additional information available.

Persistence and degradability: No relevant additional information available.

Bioaccumulation potential: No relevant additional information available.

Mobility in soil: No relevant additional information available.

Results of PBT and vPvB assessment: No relevant additional information available.

Other adverse effects: No relevant additional information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods. (See section 6)

Empty packaging has to be managed under local and national regulations.

See Directive 2008/98/CE about waste framework.

European waste catalogue	17-08-02 Gypsum-based construction materials
Uncleaned packaging recommendation	Contaminated packages are to be emptied as completely as possible. After appropriate cleaning, they may be used or recycled.



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14. TRANSPORT INFORMATION

The substance has been classified as **not hazardous for transport**.

15. LEGISLATION

1.1 Health, safety and environmental regulations/legislation specific for the substance or mixture:

The substance is not affected by:

- Regulation (EC) No. 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
- Directive 2012/18/UE (SEVESO III).
- Regulation (EC) No. 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.
- Regulation (EC) No. 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

1.2 Chemical safety assessment:

Not applicable as the substance is not classified as dangerous under Regulation N° 1272/2008.

1.3 REACH No:

A registration number is not available for this substance as the substance is 100% natural and therefore exempted from registration according to REACH regulation Annex V, entry 6 + 7.

16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet has been drawn up according to COMMISSION REGULATION (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). The information is based on actual knowledge and CE and national current legislation. The working conditions of users are outside of our knowledge and control. The substance cannot be used for other purpose not specified on this Material Safety Data Sheet without a written handling instruction. It is the user's responsibility to consider regulation requirements.