



MATERIAL SAFETY DATA SHEET

WHITE PORTLAND CEMENT

(Dry cement and unhardened cement)

1. SUBSTANCE / PREPARATION LABEL AND COMPANY NAME

Product Information : Çimsa Portland Cement

Product Identifiers : Cement, White Cement, EN 197-1 CEM I

Identification of the manufacturer / Supplier

Manufacturer's Name: Çimsa Çimento San. ve Tic.A.S.

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Product Use : White Cement is distributed in kraft bags , big – bags and bulk shipment.

White Cement is used as a binder in concrete and mortars.

2. INFORMATION ABOUT COMPOSITION / COMPONENTS

Chemical characteristics of White cement % 100 the preparation

Component	%	CAS No	OSHA PEL-TWA(mg/m3)
Portland Cement	100	65997-15-1	15(T);5(R)
Calcium Sulphate	2-5	13397-24-5	15(T);5(R)
Calcium Carbonate	0-5	1317-65-3	15(T);5(R)
Calcium Oxide	0-3	1305-78-8	5(T)
Magnesium Oxide	0-3	1309-48-4	15(T)
Crystalline Silica	0-0,1	14808-60-7	(10/(%SiO ₂ +2) (R) (30/(%SiO ₂ +2) (T)

EC-No : 0086-CPD-458580 *white cement*

Content:

White Cement Clinker min %95 + max %5 limestone

Identification :

EN-197-1 CEM I 52.5 N

Note: White Cement may contain trace amounts of chemical compounds like free CaO, free MgO, K and Na compounds, Chromium, Nickel and some trace elements since it is produced from mined materials by burning fossil fuels.


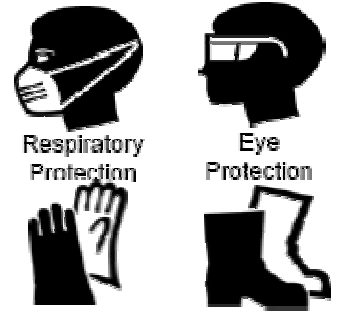
3. HAZARD IDENTIFICATION

Danger characterization :

White Cement is an odorless powder that can be grey or white according to product type in color. Short term exposure to the dry cement present no or little hazard. Avoid breathing dust.

Special danger remarks for individuals:

After mixing with water, the product may cause serious eye and skin damage by chemical burns in case of long term exposure to wet cement. Wet cement is caustic.

	<p>WARNING</p> <p>Corrosive - Causes severe burns. Toxic - Harmful by inhalation. (Contains crystalline silica)</p> <p>Use proper engineering controls, work practices, and personal protective equipment to prevent exposure to wet or dry product.</p> <p>Read MSDS for details.</p>	 <p>Respiratory Protection</p> <p>Eye Protection</p> <p>Waterproof Gloves</p> <p>Waterproof Boots</p>
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4. FIRST AID MEASURES

- Eye contact :** Flush immediately eye thoroughly with clean water. Consult a physician immediately if irritation persists.
- Skin contact :** Wash affected areas with neutral soap and clean cool water for at least 15 minutes. For reddened or blistered skin, consult a physician immediately.
- Inhalation :** Remove person to fresh air and support breathing as needed. Inhalation of large amounts of cement requires immediate medical attention. Consult a physician immediately.
- After swallowing :** Rinse out mouth, drink water, cause no vomiting and consult a physician.

5. FIRE-FIGHTING MEASURES

Not relevant; product is incombustible

6. MEASURES IN CASE OF UNINTENTIONAL RELEASE

Man-related protective measures	Avoid skin and eye contact, keep away from dust, safeguarding sufficient ventilation / sufficient breath protection
Environment protection measures	Avoid uncontrolled entry into the sewage system or into the outfall drain, especially after uncontrolled water addition.
Procedures for cleaning / absorbing	Pick up mechanically (dry)
Additional remarks	Hardens after contact with water after 3 - 4 h, and can be disposed like concrete afterwards

7. HANDLING AND STORAGE

Handling	<p>Avoid dust development, Avoid skin and eye contact. During working avoid skin contact through use of appropriate protective clothing.</p> <p>Bagged white cement is heavy and poses risk of injury during carrying. Handle with care. Use Personal Protective Equipment (PPE).</p>
Advice for fire	Not relevant
Storage	Protect from moisture in closed rooms and containers

8. EXPOSURE LIMITATION AND PERSONAL PROTECTIVE EQUIPMENT

Occupational Exposure Standard (OES) OES 8 hours time weighted average (TWA)

Total inhalable dust	10 mg/m ³	8hr TWA
Respirable dust	4 mg/m ³	8hr TWA

Some engineering methods should be used for controlling dust exposures.

Personal Protective Equipments : are listed on the following items according to where it is going to be used.

Respiratory Protection : Provide local exhaust or general ventilation system to control dust levels below the 8hrTWA level. Avoid creating airborne dust conditions. Local exhaust ventilation is preferred since it prevents release of contaminants in to the work area by controlling it at the source. If local or general ventilation is not adequate to control dust levels below exposure limits, use OES approved respirators.

Hand and Skin Protection : if hands or feet will be immersed in white cement, wear impervious and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing skin contact If contact occurs, wash areas contacted by material with pH neutral soap and water.

Eye Protection : Wear safety glasses with side shields or goggles to protect the eyes. In high dusty environments wear tightly fitting goggles to avoid eye irritation or injury.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Powder
Color	White
Smell	Odorless

Physical Data

Physical state:	Particulate, white powder
Odor:	Odorless
Solubility in Water:	Negligible
Melting Point:	(N /A)
Boiling Point:	> 1000 Celcius
Decomposition temperature:	(N/A)
Flash point:	(N/A)
Explosive properties:	Not explosive
Bulk Density:	980 -1200 kg/m ³
Specific Gravity (H ₂ O:1):	3.05 – 3,15 gr/ cm ²
Evaporation Rate:	(N/A)
Vapor Density:	(N/A)
pH (in water):	11 - 13

10. STABILITY AND REACTIVITY

Stable when kept dry until usage. White Cement is alkaline and incompatible with acids, ammonium salts and aluminum metal. When dissolved in HF acid produces corrosive gas, reacts with water.

11. INFORMATION ON TOXICOLOGY

Toxicological tests

<i>Acute toxicity</i>	In-vivo-animal tests showed no acute dermal toxicity.
<i>Specific symptoms in animal tests</i>	Not relevant
<i>Irritant/etching effect</i>	Not relevant
<i>Sensibilisation</i>	Not tested
<i>Practical experience</i>	Repeated and prolonged skin contact can cause dermatitis, skin dryness, fissures, rashes. Repeated and rhinitis and coughing.
<i>Carcinogenic Potential</i>	<p>White portland cement are not listed on the NTP , IARC or OSHA lists of carcinogens. It may,however,contain trace amounts of substances listed as carcinogens by these organizations.</p> <p>Crystalline silica, a potential trace level contaminant in white and portland cement ,is now classified by IARC as known carcinogen.(Group I). NTP has characterized respirable silica as "reasonably" anticipated to be carcinogen.</p>

12. ECOLOGICAL INFORMATION

LC 50 Aquatic toxicity rating is not determined. Because of rising ph value with adding water to white cement can cause aquatic toxicity in some circumstances. Biological Oxygen Demand (BOD) is not applicable.

13. WASTE DISPOSAL REMARKS

Product (unused residue)

Recommendation Further use possible after picking-up dry

Waste code no. Not relevant

Product (after addition of water, hardened)

Recommendation After addition of water disposal like concrete

Impure packaging

Recommendation When taking back the (sale) packaging, a dry removal of attached remainders of the preparation is possible.

14. TRANSPORT INSTRUCTIONS

White portland cement are not hazardous under TDG (Transport of Dangerous Goods) regulations.

15. REGULATIONS

Identification

Identification letter and danger indication Not relevant

according to EU directive 91/155/EWG) Update in accordance with Guideline 2001/58/EG and TRGS 220 (April 2002)

R-phrases

- R 36** Irritating to eyes
- R 37** Irritating to respiratory
- R 38** Irritating to skin

S-phrases

- S 2** Keep out of the reach of children
- S 22** Do not breathe dust
- S 24/25** Avoid contact with skin and eyes
- S 26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S 28** After contact with skin wash immediately with plenty of water
- S 37/39** Wear suitable gloves and eye/face protection

16. FURTHER INFORMATION

Purpose of use White Cement is mainly used in building industry and decorative Construction

Sources of information Criteria document for an occupational exposure limit, June 1974, HSE Guidance note EH26 Occupational Skin Disease-Health and Safety Precautions, HMSO 1981, Environmental Protection act. Control of Substances Hazardous to Health (Regulations)

Other information

In white cement Cr6+ concentration should be less than 2 ppm (Cr6+ < 2 ppm).

This material safety data sheet provides information on white Cement products and do not relate to use in combination with any other materials or in any process. The information provided here in is believed by Çimsa Cement Company to be accurate. Health safety precautions in this data sheet may not be enough for all individuals or situations. Users have the responsibility to comply with all laws and procedures applicable to the safe handling and use of the product. It is intended for use by persons having technical skill and at their own discretion and risk.

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The information in this document is accurate at the time of preparation.

ABBREVIATIONS

MSHA	: Mine Safety and Health Administration
NIOSH	: National Institute for Occupational Safety and Health
NTP	: National Toxicology Program
OSHA	: Occupational Safety and Health Administration
PEL	: Permissible Exposure Limit
REL	: Recommended Exposure Limit
TDG	: Transport of Dangerous Goods
TLV	: Threshold Limit Value
TSCA	: Toxic Substance Control Act
TWA	: Time Weighted Average
WHMS	: Workplace Hazardous Materials Information System
ACGIH	: American Conference of Governmental Industrial Hygienists
ASTM	: American Society for Testing and Materials
CAS	: Chemical Abstract Service
CFR	: Code of Federal Regulations
IARC	: International Agency for Research on Cancer.
m³	: Cubic meter
mg	: Milligram

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