

**1. PRODUCT AND COMPANY IDENTIFICATION:**
**1.1. PRODUCT:**

**API Oilwell Cement, class G, HSR**  
**API Spec 10A**

Commercial name:

**GEODUR**

**1.2. PRODUCER:**

**SALONIT ANHOVO**  
Building Materials, Joint-Stock Co.  
Anhovo, Vojkova 1  
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**1.3. PRODUCT USE:**

This product is intended for use as a basic well cement.

**1.4. EMERGENCY CONTACT INFORMATION:**

**SALONIT ANHOVO**  
Building Materials, Joint-Stock Co.  
Phone.: +386 5 39 21 000

**2. COMPOSITION / INFORMATION ON INGREDIENTS:**

**Chemical name and synonyms:** Hydraulic well cement, well cement

The product is obtained by grinding Portland cement clinker, consisting essentially of hydraulic calcium silicates, with calcium sulphate (natural gypsum). No other additives are added.

**Dangerous components:**

Substance	CAS No.	EINECS No.	Content wt%	Code letter	R-phrases
Portland cement clinker	65997-15-1	266-043-4	Min 95	Xi: irritant	36/37/38-43
Gypsum	7778-18-9		3-5	-	-

Trace constituents: Oilwell cement is made from materials mined from the earth and is processed using energy provided by fuels. Portland cement may contain trace amounts of insoluble residue, some of which may be free crystalline silica. Other trace constituents may include calcium oxide, free magnesium oxide, potassium and sodium sulphate compounds, chromium compounds and nickel compounds.

For full text of R phrases see section. 16.

**3. HAZARD IDENTIFICATION:**

Hazard classification: **Xi – IRRITANT.**

Skin contact	Exposure to dry portland cement may cause drying of the skin with consequent mild irritation. Dry portland cement contacting wet skin or exposure to moist or wet portland cement may cause more severe effects including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of (caustic) chemical burns. Some individuals may exhibit an allergic response upon exposure to portland cement, possibly due to trace amounts of chromium VI. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.
Eye contact	Direct contact with dust may cause immediate or delayed irritation or inflammation. Direct contact by larger amounts of dry powder or splashes of wet portland cement may cause effects ranging from moderate eye irritation to severe chemical burns and blindness.
Inhalation	Dust may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system with coughing and nasal discharge. Oilwell cement may contain trace amounts of crystalline silica. Prolonged exposure to respirable free crystalline silica may aggravate other lung conditions. It also may cause delayed lung injury included silicosis, a disabling and potentially fatal lung disease, and/or other diseases.
Ingestion	Ingestion of larger amounts of cement may cause severe abdominal discomfort and nausea. Oilwell cement should not be eaten.

**4. FIRST AID MEASURES:**

SKIN CONTACT:	Wash thoroughly with plenty of water and mild soap. Remove contaminated clothing and shoes. If irritation persists or develops seek medical attention.
EYE CONTACT:	Immediately rinse thoroughly with water. Continue flushing eye for at least 15

INHALATION:	minutes. Seek medical attention. Move person to fresh air. Seek medical attention if coughing and other symptoms do not subside.
INGESTION:	Do not induce vomiting, wash out mouth with water and give water to drink. Never give anything to drink to an unconscious person! Seek medical attention for discomfort.
NOTES FOR DOCTOR:	n.a.

**5. FIRE FIGHTING MEASURES:**

SUITABLE EXTINGUISHING MEDIA:	This product is not combustible. Use agent most appropriate to extinguish surrounding fire.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS	This product is not combustible. Although Portland cement poses no fire-related hazards, a self-contained breathing apparatus is recommended to limit exposure to combustion products when fighting any fire.

**6. ACCIDENTAL RELEASE MEASURES:**

PERSONAL PRECAUTIONS	Eye protection, gloves, overalls and respiratory protection
ENVIRONMENTAL PRECAUTIONS	Remove spilled material to limit potential harm. Do not allow to enter streams, rivers, lakes etc.
METHODS FOR CLEANING UP	Clean-up method such as vacuuming is suitable. Dry material collect into suitable closed containers for disposal or reclamation.
ADDITIONAL INSTRUCTIONS:	n.a.

**7. HANDLING AND STORAGE**

HANDLING	Keep dry until use. Avoid accidental release, avoid formation of dust. Prevent eye and skin contact. Wash skin thoroughly after handling dry or wet cement. Promptly remove and launder clothing that is dusty or wet with cement.
STORAGE	Store in tightly closed containers in dry places. Avoid accidental release. Keep away from children.

**8. EXPOSURE CONTROL/PERSONAL PROTECTION:**
**OCCUPATIONAL EXPOSURE LIMITS**

Regulation on the protection of the workers from the risks related to chemical agent at work (Official Journal of Republic of Slovenia, No. 100/01)

substance	CAS No.	EC No.	Limit values	
			mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)
Portland cement (dust)	68475-76-3	270-659-9	5	-

**PERSONAL PROTECTION**

Respiratory protection:	Wear approved respirator
Hands protection:	gloves
Eye protection:	Safety glasses with side shields or goggles In dusty conditions do not wear contact lenses.
Skin contact:	Overalls, boots

ENGINEERING CONTROLS:	Avoid actions that cause dust to become airborne. Use local exhaust or general ventilation to maintain dust below exposure limits in workplaces.
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**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance:	Solid (powder)
Colour:	grey
Odour:	odourless
pH	12,5 (in water, 20°C)
melting point	>1400 °C
boiling point	n.a.

flash point	not combustible
Flammability (in air)	n.a.
Auto ignition temperature	n.a.
Explosive properties	n.a.
relative density	cca 3,2 g/cm <sup>3</sup>
Bulk density	cca.1050 kg/m <sup>3</sup> - cca. 1650 kg/m <sup>3</sup>
Water solubility	slightly soluble

**10. STABILITY AND REACTIVITY:**

CONDITIONS TO AVOID	Stable when dry – reacts with water and moisture.
INCOMPATIBILITY	In contact with water highly alkaline solutions are formed. Contact with acids will cause exothermic reactions. Dissolves in hydrofluoric acid producing corrosive silicon tetra fluoride gas.
HAZARDOUS DECOMPOSITION PRODUCTS:	n.a.

**11. TOXICOLOGICAL INFORMATION:**

ACUTE TOXICITY	n.a.
IRRITANT EFFECTS	Irritating to eyes, respiratory system and skin.
CHRONIC EFFECTS	May cause sensitization by skin contact (chromium VI)

**12. ECOLOGICAL INFORMATION:**

AQUATIC TOXICITY:	In contact with water highly alkaline solutions are formed.
GENERAL:	Substance must be used according to good working practise and must not be spilled into environment.

**13. DISPOSAL CONSIDERATIONS:**

GENERAL:	Any disposal practice must be in compliance with local regulations.
RECOMMENDATIONS:	Can be reused if picked up in dry state. Dispose in approved landfill.
EWC disposal code:	170101
	Hardened cement can be disposed of as construction waste.

**14. TRANSPORT INFORMATION:**

n.a.

**15. REGULATORY INFORMATION:**

Contain chromium (VI). May cause allergic reactions.		
Hazard symbols:	Xi	IRRITANT
R -Risk phrases	36/37/38	Irritating to eyes, respiratory system and skin.
	43	May cause sensitisation by skin contact (chromium VI)
S - Safety phrases	2	Keep out of reach of children
	22	Do not breathe dust
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	36/37	Wear suitable protective clothing and gloves

**16. OTHER INFORMATION:**

Information contained in this MSDS is provided only for use in assessing the hazardous nature of the material and do not give any warranty about all cement characteristics. Information in this MSDS is believed to be current and accurate at the time provided. It is the full user's obligation to determine the conditions of safe use of this product and to follow the current legislation.

<b>R -Risk phrases</b>	(Section 2)
36/37/38	Irritating to eyes, respiratory system and skin.
43	May cause sensitisation by skin contact (chromium VI)

This MSDS is prepared according to:	Regulation on classification, packaging and labelling of dangerous substances (Official Journal of Republic of Slovenia, No. 101/02)
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## MATERIAL SAFETY DATA SHEET

Page: 4 od 4  
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