



SAFETY DATA SHEET

BOSTIK NM 110

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : BOSTIK NM 110
Code : 127490
Product type : Solid.
Use of the substance/preparation : Dope. Cements.
Manufacturer : BOSTIK SA
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ORFILA

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/37/38
R43

Human health hazards : Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Nature of material : Cements.

Ingredient name	CAS number	%	EC number	Classification
portland cement mixture	65997-15-1	20 - 50	266-043-4	Xi; R36/37/38 [1] [2] R43
zinc sulphate (anhydrous)	7733-02-0	< 1	231-793-3	Xn; R22 [1] Xi; R41 N; R50/53
See section 16 for the full text of the R-phrases declared above				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First-aid measures

- Inhalation** : Move exposed person to fresh air. Maintain an open airway. Get medical attention.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.
- Skin contact** : Get medical attention. Wash with soap and water. Continue to rinse for at least 10 minutes. In case of chemical burns, get medical attention as soon as possible. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific fire or explosion hazard.
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides
Dust and fumes
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Do not touch or walk through spilt material. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up**
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Contaminated absorbent material may pose the same hazard as the spilt product. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not reuse product container.

7. HANDLING AND STORAGE

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers.

Packaging materials

Recommended : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
portland cement mixture	ACGIH TLV (United States, 1/2007). TWA: 10 mg/m ³ 8 hour(s).

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Exposure controls

Occupational exposure controls : Use only with adequate ventilation. Use local exhaust ventilation or handle in a ventilated enclosure.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes or when material is handled hot.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Solid. [Powder.]

Colour : Grey.

Odour : Odourless.

Important health, safety and environmental information

pH : 12,13 [Conc. (% w/w): 20%]

Solubility : Very slightly soluble in the following materials: cold water and hot water.

10. STABILITY AND REACTIVITY

Stability : Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid : No specific data.

Materials to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

- Inhalation** : Irritating to respiratory system.
Ingestion : Irritating to mouth, throat and stomach.
Skin contact : Irritating to skin. May cause sensitisation by skin contact.
Eye contact : Irritating to eyes.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
zinc sulphate (anhydrous)	LD50	Rat	196 mg/kg	-
	Intraperitoneal			
	LD50 Intravenous	Rat	69900 ug/kg	-
	LDLo	Rat	330 mg/kg	-
	Subcutaneous			
	TDL0	Rat	33 ug/kg	-
	Intratracheal			
	TDL0	Rat	161 ug/kg	-
Intratracheal				
TDL0	Rat	5166 g/kg	-	
Intraperitoneal				

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Chronic effects : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Ingestion : No specific data.

Skin : Adverse symptoms may include the following:
irritation
redness

Eyes : Adverse symptoms may include the following:
irritation
watering
redness

Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, skin, eye, lens or cornea.

12. ECOLOGICAL INFORMATION

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
zinc sulphate (anhydrous)	-	Acute EC50 60,5 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	-	Acute EC50 60 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	-	Acute LC50 5,25 mg/L Fresh water	Crustaceans - Ostracod - Stenocypris malcolmsoni	48 hours
	-	Acute LC50 4,029 to 4,056 mg/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 2,3 mg/L Fresh water	Daphnia - Water flea - Daphnia carinata	48 hours
	-	Acute LC50 1,4 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia reticulata	48 hours
	-	Acute LC50 1,17 to 1,32 mg/L Fresh water	Crustaceans - Water flea - Moina macrocopa	48 hours
	-	Acute LC50 0,5 mg/L Fresh water	Crustaceans - Calanoid copepod - Heliodiaptomus viduus	48 hours
	-	Acute LC50 0,12 mg/L Fresh water	Crustaceans - Water flea - Moina macrocopa	48 hours
	-	Acute LC50 0,094 to 0,113 mg/L Fresh water	Crustaceans - Water flea - Moina macrocopa	48 hours
	-	Acute LC50 4,3 to 6,13 mg/dm ³ Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	-	Acute LC50 0,05 to 0,154 mg/dm ³ Marine water	Crustaceans - Redtail prawn - Penaeus penicillatus	48 hours
	-	Acute LC50 19,09 to 55,82 ppm Marine water	Fish - Mozambique tilapia - Tilapia mossambica	96 hours
	-	Acute LC50 19,13 ppm Marine water	Fish - Goldspot mullet - Liza parsia	96 hours
	-	Acute LC50 131 to 168 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 124 to 165 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 8,109 ug/L Fresh water	Fish - Indian Freshwater Perch - Ambassis ranga	96 hours
	-	Acute LC50 115 to 147 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 12,625 ug/L Fresh water	Fish - Mozambique tilapia - Tilapia mossambica	96 hours
	-	Acute LC50 95 to 105 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	-	Acute LC50 4 ug/L Fresh water	Crustaceans - Copepod - Mesocyclops hyalinus	48 hours
	-	Acute LC50 9,8 to 12,8 mg/L Fresh water	Fish - Razorback sucker - Xyrauchen texanus	96 hours
	-	Acute LC50 8,4 to 10,6 mg/L Fresh water	Fish - Colorado squawfish - Ptychocheilus lucius	96 hours
	-	Acute LC50 40 to 51 ug/L Fresh water	Daphnia - Water flea - Daphnia hyalina	48 hours

12. ECOLOGICAL INFORMATION

-	Acute LC50 29,88 to 31,95 ug/L Fresh water	Fish - Snake-head catfish - Channa punctata	96 hours
-	Acute LC50 23 to 36 ug/L Marine water	Crustaceans - Calanoid copepod - Temora stylifera	48 hours
-	Acute LC50 10,5 ug/L Fresh water	Fish - Pearlsplit - Etroplus maculatus	96 hours
-	Acute LC50 14 to 40 ug/L Marine water	Crustaceans - Calanoid copepod - Temora stylifera	48 hours
-	Acute LC50 0,017 to 0,034 ug/L Fresh water	Fish - Flagfish - Jordanella floridae	96 hours
-	Chronic NOEC 0,017 ug/L Fresh water	Fish - Flagfish - Jordanella floridae	96 hours

Conclusion/Summary : Not available.

Biodegradability

Conclusion/Summary : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

14. TRANSPORT INFORMATION

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
ADNR Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG* : Packing group

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Irritant

Risk phrases : R36/37/38- Irritating to eyes, respiratory system and skin.
R43- May cause sensitisation by skin contact.

Safety phrases : S2- Keep out of the reach of children.
S24/25- Avoid contact with skin and eyes.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37- Wear suitable gloves.

Contains : portland cement mixture

Product use : Consumer applications, Professional applications.

Europe inventory : **Europe inventory:** Not determined.

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16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Europe : R22- Harmful if swallowed.
R41- Risk of serious damage to eyes.
R36/37/38- Irritating to eyes, respiratory system and skin.
R43- May cause sensitisation by skin contact.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - Europe : Xn - Harmful
Xi - Irritant
N - Dangerous for the environment

History

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Prepared by : Not available.

✔ Indicates information that has changed from previously issued version.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.