

# EC Material Safety Data Sheet (MSDS)

Product name NaturalShield light weight plaster

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1.	Product and company identification:	
	Registered trade name:	NaturalShield
	Usage or preparation:	- Lightweight aggregate filler in hydraulic and organic bound materials and plastics - as filling
	Information on the manufacturer/supplier Manufacturer address:	BSN YAPI MALZEMELERİ İTHALAT İHRACAT İNŞAAT SAN. ve TİC. LTD. ŞTİ.  Yenibosna Merkez Mah. Değirmenbahçe Cad. ISTWEST A2A Blok D: 25 K:3 Yenibosna / Bahçelievler - İSTANBUL  Tel: +90 212 777 80 37 Faks: +90 212 777 72 48  E-mail:info@bsnyapi.com.tr - Web:bsnyapi.com.tr

2.	Possible dangers	
	Classification:	This product is excluded from the specific labeling Requirements of 1999/45/EG and guideline 67/548/EWG.
	Description of dangers	Not applicable
	Special danger designations for man and environment	By destruction of the granules structure at improper use the dust may cause irritations at eyes and respiratory tract.
	Note for medical doctors:	Show this data sheet to attending doctor.

3.	Composition/information on ingredients:		
	Chemical name:	Light weight plaster	
	Ingredient	Chemical formula	Typical % by weight
	Silicium Dioxide	SiO <sub>2</sub>	71
	Sodium Oxide	Na <sub>2</sub> O	9
	Calcium Oxide	CaO	14
	Aluminium Oxide	Al <sub>2</sub> O <sub>3</sub>	3
	Magnesium Oxide	MgO	2
	Potassium Oxide	K <sub>2</sub> O	1
	Index no.:	Not controlled / Not regulated	
	Additional details	Not applicable	

4.	<p><b>First Aid measures:</b></p> <p>after inhalation:</p> <p>after skin contact:</p> <p>after eye contact:</p> <p>after ingestion:</p>	<p>Remove to fresh air immediately. If breathed in, seek medical aid.</p> <p>Wash skin with soap and water. Disrobe soiled clothing and shoes. Consult a doctor in case of irritations.</p> <p>Flush eyes with plenty of running water for at least some Minutes. Consult a doctor if considerable disturbances appear.</p> <p>There are not known any effects. Irritations of the mouth, trachea, stomach and intestines are possible.</p> <p>Allow the casualty to rinse his or her mouth and give some water to drink, consult a doctor.</p>
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5.	<p><b>Fire-fighting measures</b></p> <p>General information:</p> <p>Extinguishing media:</p> <p>Fire-fighting protective equipment:</p>	<p>Not applicable. This product is noncombustible. Also there is no special risk by its preparation or the comprised elements.</p> <p>Use extinguishing media appropriate to the primary cause of fire.</p> <p>Not applicable</p>
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6.	<p><b>Accidental release measures:</b></p> <p>General information:</p> <p>Spillage:</p>	<p>Use personal safety equipment. The usage of a particle filtered protective mask is indicated.</p> <p>Dispose spillage in accordance with Section 8.</p> <p>Sweep or vacuum the spillage and waste it properly.</p>
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7.	<p><b>Handling and Storage</b></p> <p><b>Handling</b></p> <p>Notes for safe handling:</p> <p>Risks at preparation:</p> <p>Notes for fire and explosion protection:</p> <p><b>Storage:</b></p> <p>Storage space and vessel requirements:</p> <p>Information for combined storage:</p> <p>Additional designation of the storage requirements:</p> <p>Storage classification:</p>	<p>Avoid contact with eyes. Avoid ingestion or inhalation.</p> <p>Avoid formation of dust. The usage of particle filtered protective mask P2 is required if the dust concentration rises above the reference value.</p> <p>Non-combustible</p> <p>Not applicable</p> <p>Not applicable</p> <p>Protect against humidity</p> <p>Not applicable</p>
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8.	Exposure controls/personal protection:	
	Additional notes for design of technical constructions:	Not applicable
	Exposure limits:	
	German occupational exposure limit value AGW ("Arbeitsplatzgrenzwert")	
	AGW: respirable dust:	3 mg/m <sup>3</sup> A
	total inhalable dust:	10 mg/m <sup>3</sup> E
	Category:	2 (II)
	These values are reference dust values. Reference dust values vary depending on the country of application.	
	Components which have to be monitored according to limits based on the workplace:	Not applicable
	Additional notes according to limits:	Not applicable
	Personal Protection:	
	Measures of safety and hygiene:	Not necessary
	Respiratory protection:	The usage of a particle filtered protective mask P2 is required if the dust concentration rises above the reference AGW value.
	Eye protection:	Wear safety glasses with side shields to protect against eye contact.
	Hand protection:	Wear suitable protective gloves in order to minimize skin contact.
	Body protection:	Wear general purpose work suite to protect skin from irritation.

Physical state:	powder
Appearance:	White granules
Odour:	Odourless
Change in state:	
Boiling point	Not expedient; It's a mineral product.
Melting point:	approx. 900°C (1650°F) (published values of container glass)
Softening point:	approx. 700°C (1300°F) (DIN ISO 7884-6)
Flashpoint:	non-combustible
Explosion limit:	Not applicable
Vapour pressure:	Not applicable
Specific gravity:	110 - 600 kg/m <sup>3</sup> (depending on grain size) (DIN 5211 OA)
Solubility in water:	water-insoluble
pH-value:	10,7 (200g / 100g in 1 l of water) pH-meter
Danger of dust explosion:	Not applicable
Additional Information:	
Viscosity:	Not applicable
Vapour density:	Not applicable
n-octanol-water partition coefficient:	Not definable; adipic insolvable solid

10.	Stability and reactivity:	
	Stability:	Stable under normal temperature and pressure conditions
	Conditions to avoid (stability):	Not applicable
	Incompatibility (material to avoid):	Fluorhydric acid (HF); material dissolves by generation of H <sub>2</sub> SiF <sub>6</sub>
	Hazardous decomposition or by-products:	Not applicable
11.	Toxicological information:	
	Acute toxicity (LD50 / LC50):	RTECS unavailable
	Inhale:	None known
	Skin contact:	Not applicable
	Sensitisation:	None known
	Eye contact:	Irritations may appear
	Ingestion:	Irritations of the mouth, trachea, stomach and intestines may appear.
	CMR effects (carcinogenity, mutagenity and toxicity for reproduction):	None known
	Subacute or chronic toxicity:	None known
	Repeated dose toxicity:	None known
12.	Ecological information:	
	Information for degradation:	Biological nondegradable as of mineral origin
	Mobility in the soil:	Not applicable
	Ecotoxic effects:	Not applicable
13.	Disposal considerations:	
	Disposal in accordance with federal, state and local regulation.	
	AW Refuse code:	170202
	AW packing:	Not applicable
14.	Transport information:	
	Road transportation ADR / RID and GGVSE :	
	GGVSE:	Not a hazardous material
	RID / ADR:	Not applicable
	Warning sign No.:	Not applicable
	Inland waterway transportation :	
	ADN/ ADNRR:	Not a hazardous material
	Sea transport:	
	IMDG / GGVSea:	Not a hazardous material
	IMO:	Not a hazardous material
	UN-Nr.:	Not applicable
	GGVSea-packing group:	Not applicable
	EMS:	Not applicable
	MFAG:	Not applicable

Air Transportation :	
ICAO / IATA:	Not a dangerous good
ICAO packing group:	Not applicable
Transport/additional information:	protect from humidity max. blowing pressure: 0,8 bar

15.	Regulations on assessment of material safety :	
	Guidelines by EC:	
	Danger symbol:	Not applicable
	Danger defining components:	Not applicable
	R-phrases:	Not applicable
	S-phrases:	S 24/25 Avoid contact with skin and eyes.
	Special identification of certain preparations:	Not applicable
	German national guidelines:	
	Classification according to "StöfallVO":	Not applicable
	Classification according to "VBF":	Not applicable
	Classification according to "TALuft":	Not applicable
	Water pollution classification:	1
	Resorption by Skin/Sensitisation:	None known
	Canadian national guidelines	no labeling required according to Canadian WHMIS classification

16.	Other Information:
	The details are based on today's state of our knowledge and serve to describe the product with regard to the correct safety regulations.
	It does not represent any assurance of product properties and does not give reasons for any contractual facts of the case. Users must decide even on the suitability of this information for her certain purpose.