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SECTION 1. IDENTIFICATION

Product name : STANDART Porenbeton RO 400 Aluminium Powder

Product code : 040242F80

:

:

Manufacturer or supplier's details

Company name of supplier

Address

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200 Flammable solids : Category 1							
Combustible dust							
GHS label elements Hazard pictograms	:						
Signal word	:	Danger					
Hazard statements	:	H228 Flammab May form comb	le solid. ustible dust concentrations in air.				
Precautionary statements	:	Prevention: P210 P240 P241 P280	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting equipment. Wear protective gloves/ eye protection/ face protection.				
		Response:					
		P370 + P378	In case of fire: Use for extinction: Special				



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P370 + P378

powder for metal fires. In case of fire: Use for extinction: Dry sand.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum	7429-90-5	>= 90 - < 100

SECTION 4. FIRST AID MEASURES

General advice	:	Move the victim to fresh air. Move out of dangerous area.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water.
		If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	None known.

SECTION 5. FIREFIGHTING MEASURES



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	Suitabl	e extinguishing media	:	Dry sand Special powder ag	gainst metal fire	
	Unsuitable extinguishing media		:	ABC powder Carbon dioxide (CO2) Water Foam		
	Specific firefight	c hazards during ting	:	Contact with wate (hydrogen).	r liberates extremely flammable gas	
	Further information		:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
	Special protective equipment for firefighters		:	Wear self-contain necessary.	ed breathing apparatus for firefighting if	
SEC	TION 6	. ACCIDENTAL RELE	ASI	EMEASURES		
	Personal precautions, protective equipment and emergency procedures		:	Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation. Remove all sources of ignition.		
	Enviror	nmental precautions	:			
				Prevent further lea	om entering drains. akage or spillage if safe to do so. aminates rivers and lakes or drains inform ties.	
		ls and materials for ment and cleaning up	:	Use mechanical h Do not use a vacu	andling equipment. ium cleaner.	
				Do not flush with Keep in suitable, o	vater. closed containers for disposal.	

SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	Use explosion-proof equipment.
fire and explosion		During processing, dust may form explosive mixture in air.
		Take measures to prevent the build up of electrostatic charge.



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				earthing measure	from one container to another apply s and use conductive hose material. open flames, hot surfaces and sources of		
Advice on safe handling		on safe handling	:	 Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from heat. 			
				Smoking, eating a application area.	ection see section 8. and drinking should be prohibited in the vater in accordance with local and national		
(Conditi	ons for safe storage	:	Reaction with wat (hydrogen) Use explosion-pro Store in original c Keep containers t Keep away from s			
				place.	ghtly closed in a dry and well-ventilated ions / working materials must comply with safety standards.		
	Technic measui	cal res/Precautions	:	Protect from hum	idity and water.		
ſ	Materia	Ils to avoid	:	Never allow produ storage. Keep away from o	ther with oxidizing and self-igniting products. Let to get in contact with water during oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions.		
		information on stability	:	Keep in a dry plac	ce.		



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (total) TWA (respirable fraction)	10 mg/m3 5 mg/m3	NIOSH REL OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	1 mg/m3	ACGIH
		TWA	5 mg/m3 (Aluminium)	NIOSH REL
		TWA (Total)	15 mg/m3 (Aluminium)	OSHA P0
		TWA (Respirable fraction)	5 mg/m3 (Aluminium)	OSHA P0
		TWA (total dust)	15 mg/m3 (Aluminium)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminium)	OSHA Z-1
		TWA (Total dust)	15 mg/m3 (Aluminium)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3 (Aluminium)	OSHA P0
		TWA (welding	5 mg/m3 (Aluminium)	NIOSH REL

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	1		fumes)			
			TWA (pyro	5 mg/m3	NIOSH REI	
			powders)	(Aluminium)		
			TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH	
			TWA (Fumes)	5 mg/m3	OSHA P0	
Personal protective equip	ment					
Respiratory protection	:	Use suitable br requires. Breathing appa P1 filter		ction if workplace c	oncentration	
Hand protection Material Glove length	:	Leather Long sleeve glo	oves			
Remarks	:	Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The suitability for a specific workplace should be discussed with the producers of the protective gloves.				
Eye protection	:	Face-shield Safety glasses				
Skin and body protection	:	Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes. Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.				
Hygiene measures	:	: Wash hands before breaks and at the end of workday.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: silver
Odour	: odourless
Odour Threshold	: No data available





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	pH Melting	point/freezing point	:	No data available 660 °C	
	Boiling	point/boiling range	:	2,467 °C	
		ooint ation rate ability (solid, gas)	:	No data available No data available The substance of category 1.	-
				combustible dust	
		explosion limit / Upper bility limit	:	No data available	
	Lower e	explosion limit / Lower	:	30 g/m3	
	Vapour	pressure e density	:	No data available No data available 2.5 g/cm3	
		er solubility n coefficient: n-	:	insoluble No data available	9
		nition temperature	:	340 °C	
	Decom Viscosi	position temperature ty	:	No data available No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Contact with acids and alkalis may release hydrogen. Stable under recommended storage conditions. Dust may form explosive mixture in air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Acids Bases Oxidizing agents Water



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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.



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Aspiration toxicity

Not classified based on available information.

Further information

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

49 CFR UN/ID/NA number Proper shipping name	-	UN 1309 Aluminum powder, coated
Class Packing group Labels	:	4.1 II Division 4.1 - Flammable solids



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Marin	Code le pollutant national Regulations	: 170 : no	
UN/IE Prope Class Packi Label Packi aircra Packi	er shipping name ing group is ing instruction (cargo	: 4.1 : II	9 um powder, coated n 4.1 - Flammable solids
UN n	G-Code umber er shipping name	: UN 130 : ALUMIN	9 NIUM POWDER, COATED
Label EmS Marin Rema	ing group Is Code ie pollutant arks		G Code segregation group 15 - Powdered metals

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids) Combustible dust



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	SARA	313		mponents are subject to ARA Title III, Section 313		
			Aluminum	7429-90-5	>= 90 - <= 100 %	
	Clean	Air Act				
	U.S. C This pi Act Se This pi Accide This pi	lean Air Act Section 60 roduct does not contain ction 112 (40 CFR 61) roduct does not contain intal Release Prevention	02 (40 CFR 82, Subpt. n any hazardous air po n any chemicals listed on (40 CFR 68.130, Su n any chemicals listed	A, App.A + B). Illutants (HAP), as define under the U.S. Clean Air	Act Section 112(r) for	
	Clean Water Act					
This product does not contain any Hazardous Subs Section 311, Table 116.4A. This product does not contain any Hazardous Cher Section 311, Table 117.3. This product does not contain any toxic pollutants.			n any Hazardous Cher			
	US Sta	ate Regulations				
	Massa	chusetts Right To Kr	now			
		Aluminum		7	429-90-5	
	Penns	ylvania Right To Kno	w			
		Aluminum		7	429-90-5	
	Califo	rnia Prop. 65				
		, or any other reproduct WARNING: This which is/are kno	ctive harm. s product can expose y own to the State of Cal	to State of California to o you to chemicals includin ifornia to cause cancer a ion go to www.P65Warnin	g lead and cadmium, nd birth defects or other	

California List of Hazardous Substances

Aluminum

7429-90-5



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California Permissible Exposure Limits for Chemical Contaminants

Aluminum

7429-90-5

The components of this	product are reported in the following inventories:
Del	. All components of this product are on the Considian D

DSL	:	All components of this product are on the Canadian DSL
TSCA	:	On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0	÷	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
		1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1
		Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3
		Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour
		workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in



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Bulk: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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