	6 6	n (EC) No 1907/2006 (REACH) a		
		FN1®		
	on date 15. May 2019			
Revisi	ion date	Version	1.0	
SECT	TON 1: Identification of the substance/mixture and			
1.1.	Product identifier	FN1®		
	Substance / mixture	mixture		
	Other mixture names	FN1® transparent		
1.2.	Relevant identified uses of the substance or mix			
Mixture's intended use		The product is used as a protective coating with an ecological a cleaning function and self-cleaning function. It is suitable for al common types of concrete bases and exterior or interior mason and as a protection of concrete tiles and roof surfaces. A coating layer is formed by the cooperation of components contained in coated base. The coating is hardened after 24 hours. The layer activation is provoked by the daylight. The coating is fully activative after the first rain or after rinsing with water. FN1® is certificat as a concrete protection. The coating's antibacterial properties a provided by combination of physical parameters of porous laye		
	Mixture uses advised against	The product shoul in Section 1.	d not be used in ways other then those refe	
1.3.	Details of the supplier of the safety data sheet			
	Manufacturer			
	Name or trade name	Advanced Materia	ıls - JTJ s.r.o.	
	Address	Kamenné Žehrovi	ce 23, Kamenné Žehrovice, 27301	
		Czech Republic		
	Identification number (CRN)	26763842		
	Phone	+420 774 735 163		
	E-mail	info@advancedma	aterials1.com	
	Competent person responsible for the safety date			
	Name	GRACILIS s.r.o.		
	E-mail	info@gracilis.cz		
1.4.	Emergency telephone number National Health Service (NHS) 111 National poisoning information centre Scotland, N	land, NHS 24: 111		

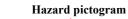
2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.

Eye Irrit. 2, H319 Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements







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Hazard statements					
H319	Causes serious eye irritation.				
H412	Harmful to aquatic life with lo	ng lasting effects.			
Precautionary state	ments				
P102	Keep out of reach of children.				
P273	Avoid release to the environm	ent.			
P280	Wear eye protection.				
P305+P351+P338	IF IN EYES: Rinse cautiously easy to do. Continue rinsing.	with water for several minute	s. Remove contact lenses, if present and		
P337+P313	If eye irritation persists: Get m	nedical advice/attention.			
P501	Dispose of contents/container	to according to applicable reg	ulations.		

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below. Aqueous suspension of the mixture of untreated titanium dioxide and inorganic additives.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 030-006-00-9 CAS: 7446-19-7 EC: 231-793-3	Zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	,	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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4.2.	Most important symptoms and effects, both acute and	delayed	
	If inhaled		
	Mucous membranes may be irritated.		
	If on skin		
	May cause mild skin irritation. Repeated exposure may ca	use skin dryness or crackin	ıg.
	If in eyes		
	Causes serious eye irritation.		
	If swallowed		
	May cause irritation of mouth, pharynx, esophagus and di	gestive tract.	
4.3.	Indication of any immediate medical attention and spe	cial treatment needed	
	Symptomatic treatment.		
SECT	CTION 5: Firefighting measures		
5.1.	Extinguishing media		
	Suitable extinguishing media		
	Water spray jet, water mist.		
	Unsuitable extinguishing media		
	not available		
5.2.	Special hazards arising from the substance or mixture not available		
5.3.	Advice for firefighters		
	not available		
	CTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emerg		7 10
()	Use personal protective equipment for work. Follow the i	nstructions in the Sections	/ and 8.
6.2.	Environmental precautions	1 (D (11	1 .
()	Prevent contamination of the soil and entering surface or	-	to enter drains.
6.3.	Methods and material for containment and cleaning u		· 1 / 1 1 / 1 / 1 / 1 /
	Spilled product should be covered with suitable (non-fl suitable absorption materials); to be contained in well clo	ammable) absorbing mater	tial (sand, diatomaceous earth, earth and othe
	of the substantial amount of the product, inform fire briga		
6.4.	Reference to other sections	and other competent bot	
0.7.	See the Section 7, 8 and 13.		
	See the Section 7, 6 and 15.		

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities
 Store in tightly closed containers in a cool, dry place intended for this purpose. Protect against frost. Store for not more than 5 year from the date of production.
 Storage temperature
 min 10 °C, max 25 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters none



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8.2. Exposure controls				

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection Protective goggles or face shield.

Skin protection

Hand protection: Protective gloves resistant to the product. Use barrier creams for skin protection, they should, however, not be applied once exposure has occurred. Other protection: protective workwear. Contaminated skin should be washed thoroughly. **Respiratory protection**

Respirator.

Thermal hazard No. Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	Appearance	
	Physical state	liquid at 20°C
	color	milky, cloudy
	Odour	without fragrance
	Odour threshold	data not available
	рН	6 (undiluted)
	Melting point/freezing point	0 °C
	Initial boiling point and boiling range	100 °C
	Flash point	data not available
	Evaporation rate	data not available
	Flammability (solid, gas)	non-inflammable
	Upper/lower flammability or explosive limits	
	flammability limits	data not available
	explosive limits	data not available
	Vapour pressure	N/A
	Vapour density	N/A
	Relative density	data not available
	Solubility(ies)	
	solubility in water	data not available
	solubility in fats	data not available
	Partition coefficient: n-octanol/water	data not available
	Auto-ignition temperature	data not available
	Decomposition temperature	data not available
	Viscosity	data not available
	Explosive properties	data not available
	Oxidising properties	data not available
9.2.	Other information	
	Density	1.1 g/cm ³ at 20 °C
	ignition temperature	data not available
	content of organic solvents (VOC)	0 %
	solid content (dry matter)	6.5 % volume
	Outflow time: 8-15s (4mm at 23/50).	

SECTION 10: Stability and reactivity

10.1.	Reactivity
	The product is stable under normal conditions.
10.2.	Chemical stability
	The product is stable under normal conditions.





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10.3.	Possibility of hazardous reactions	• 6151011	1.0		
10.01	Unknown.				
10.4.	Conditions to avoid				
	The product is stable and no degradation occurs under	normal use. Protect against fla	mes, sparks, overheating and against fr		
10.5.	Incompatible materials				
10 1	Unknown.				
10.6.	Hazardous decomposition products				
	N/A				
SECTI	ION 11: Toxicological information				
11.1.	Information on toxicological effects				
	No toxicological data is available for the mixture.				
	Acute toxicity				
	Based on available data the classification criteria are n	ot met.			
	Skin corrosion/irritation				
	Based on available data the classification criteria are n	ot met.			
	Serious eye damage/irritation				
	Causes serious eye irritation.				
	Respiratory or skin sensitisation				
	Based on available data the classification criteria are n	ot met.			
	Germ cell mutagenicity				
	Based on available data the classification criteria are n	ot met.			
	Carainogonioity				
	Carcinogenicity Based on available data the classification criteria are n	ot met			
	based on available data the classification criteria are n	ot met.			
	Reproductive toxicity				
	Based on available data the classification criteria are n	ot met.			
	Toxicity for specific target organ - single exposure	at mat			
	Based on available data the classification criteria are n	ot met.			
	Toxicity for specific target organ - repeated exposu	re			
	Based on available data the classification criteria are n				
	Aspiration hazard				
	Based on available data the classification criteria are n	ot met.			
SECT	ION 12. Ecological information				
SECTI 12.1.	ION 12: Ecological information Toxicity				
	- Onling				
	Acute toxicity				
	Harmful to aquatic life with long lasting effects.				
12.2.	Persistence and degradability				
	The mixture is biodegradable.				
12.3.	Bioaccumulative potential				
10.4	Not available.				
12.4.	Mobility in soil				

Product with high viscosity.



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12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Water hazard class: WGK 2 (self-assessment).

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

Packaging waste type code

- 15 01 02 plastic packaging
- 15 01 04 metallic packaging

SECTION 14: Transport information

- 14.1. UN number
 - Not subject to ADR
- 14.2. UN proper shipping name not available
- 14.3. Transport hazard class(es) not available
- **14.4.** Packing group not available
- 14.5. Environmental hazards
- not available
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not available
 Additional information
 Not regulated by RID, ACAO/IATA, IMDG.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available



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SECTION 16: Other inform	
	sk phrases used in the safety data sheet
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P102	handling used in the safety data sheet Keep out of reach of children.
P102 P273	Avoid release to the environment.
P280	Wear eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to according to applicable regulations.
	formation about human health protection
The product must no	ot be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the s responsible for adherence to all related health protection regulations.
Key to abbreviation	s and acronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC50	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log Kow	Octanol-water partition coefficient
MARPOL NOAEC	International Convention for the Prevention of Pollution From Ships No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed adverse effect rever
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
	Parts per million
ppm REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
U 11	The inclusion inclusion of the substance of article taken from the Ory model regulations



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UVCB	Substances of unknown or variable co	mposition, complex re	eaction products or biological materials	
VOC	Volatile organic compounds			
vPvB	Very Persistent and very Bioaccumula	ative		
Acute Tox.	Acute toxicity			
Aquatic Acute	Hazardous to the aquatic environment	ţ		
Aquatic Chronic	Hazardous to the aquatic environment	ţ		
Eye Dam.	Serious eye damage			
Eye Irrit.	Eye irritation			
Training guidelines Inform the personne handling the product Recommended rest not available	el about the recommended ways of use, .	mandatory protective	e equipment, first aid and prohibited way	

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

