### 15. APPENDIX "A" (MATERIAL SAFETY DATASHEETS)

FIREPRO SYSTEMS LTD.

FirePro

SAFETY DATA SHEET - SDS

Issue date: 26/11/2018

1.	Identification of the Substance/Company			
1.1	Trade Name	FirePro		
	Manufacturer/Supplier	FirePro Systems Ltd		
		8 Faleas Str., Agios Athanasios Industrial Area		
1.2		CY4101 Limassol CYPRUS		
		Phone: + 357 25 379999	Fax: + 357 25 354432	
		Email: mail@firepro.com	Website: www.firepro.com	
1.3	Telephone number in case of emergency: +357 25 376146			

2.	Hazards Identification				
	<ul> <li>Hazards for humans related to the FPC Solid Compound has not been found</li> <li>Hazards for humans related to the aerosol released by the solid compound have not been established because TLV's are not applicable.</li> <li>Signs and symptoms related to the aerosol phase are only referred to acute exposure and/or chronic overexposures, while in real life the exposure will be very short (i.e. in the event of an accidental discharge when people were not evacuated on time)</li> </ul>				
	For humans Threshold Limit Values None established				
	Threshold Limit Values			olisnea	
	Signs and Symptoms b	y acute			
	Eye Contact			contact no injury	
	Inhalation			route of entry	
	Skin Contact			contact no injury	
	Ingestion			contact no injury	
	Chronic Overexposure	orolly	At normal c	contact no injury	
	Medical Conditions gen aggrevated by Exposur		None know	/n	
	The ELL Classification and	U Hazard (	and Precautio	nary Statements as nor i	CLP 1272/2008 referring to the
	The EU Classification and Hazard and Precautionary Statements as per CLP 1272/2008 referring to the components of the FPC Compound are related only to the single components considered as separate chemical entities. Once mixed in the production of the FPC Compound, the statements of the single components are not applicable being the FPC Compound a separate chemical entity.				
	Product				
	EU C		assification	Oxidizer	-
2.1	Potassium Nitrate		Hazard Statements	H270	Contact with combustible material may cause or intensify fire
_, ,		Dre	e autionary	P210	Keep away from sources of ignition – No Smoking
		Precautionary Statements		P370+P260	In case of fire and/or explosion, do not breathe fumes
		EU Cla	assification	Irritant	-
			Hazard	H302	Harmful if swallowed
			Statements	H320+H335+H315	Irritating to eyes, respiratory system and skin
	Potassium Carbonate		ecautionary Statements	P305+P351+H338	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
				P282	Wear suitable gloves and eye/face protection

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		EU Classification	Flammable	-
		Hazard	H260	Contact with water liberates highly flammable gases
	Magnesium	Statements	H250	Spontaneously flammable in air.
	magnesiam		P102	Keep out of reach of children
		Precautionary Statements	P223	In case of fire never use water
2.1		Statements	P402+P404	Keep container tightly closed and dry
	Epoxy Resin Polymer	EU Classification	Irritant	-
		Hazard Statements	H317	May cause sensitization by skin contact
			H413	May cause long-term adverse effects in the aquatic environment
		Precautionary Statements	P302+P352	In case of contact with skin , rinse with water
			P282	Wear suitable gloves and eye/face protection
			P273	Avoid release to the environment. Refer to special instructions/Safety Data Sheets

3.	Composition/Information on Ingredients			
	Component	Wt %	CAS No.	EINECS
	Potassium Nitrate	77	7757-79-1	231-818-8
3.1	Potassium Carbonate	4	584-08-7	209-529-3
3.1	Magnesium	<1	7439-95-4	231-104-6
	Epoxy Resin Polymer	18	25068-38-6	Any "polymerizate, polycondensate, or polyadduct" is exempted by 81/437/EEG

4.	First-Aid Measures					
	First-Aid measures are referred to accute exposure and/or chronic over exposure					
	Inhalation	Remove from exposure area to fresh air.				
4.4	Eye Contact	If necessary wash eyes.				
4.1	Skin Contact	Change clothing and shoes. Wash skin with soap.				
	Ingestion	Not likely.				

5.	Fire fighting Measures		
5.1	Extinguishing Media	This is an Extinguishing Agent	
5.2	Unusual Fire and Explosion Hazards	The material does not present an explosion danger. It can be ignited by means of a fire. Hot aerosol is present in the close up area of the outlets.	
5.3	Special Procedures	In places where there is a fire always wear personal protecting equipment and clothing	

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6.	Accidental Release Measures		
	Personal Precautions		
	Respiratory Protection	at normal contact not needed	
6.1	Hand Protection	at normal contact not needed	
	Eye Protection	at normal contact not needed	
	Skin and Body Protection	at normal contact not needed	
6.2	Environmental Precautions		
0.2	Waste Disposal Methods	See section 13	
6.3	Clean up Precautions	Sweep up	

7.	Handling and Storage	
7.1	Handling Precautions	Avoid contact with combustible materials
7.0	Storage Precautions	Should be stored in original container. Keep dry.
7.2	Storage Class	9 Miscellaneous , solid

8.	Exposure Controls and Personal Protection		
8.1	Exposure Before entering a room with the material in aerosol phase vent properly to avoid unnecessary exposure.		
	Personal Protection		
	Respiratory Protection	at normal contact not needed	
8.2	Hand Protection	at normal contact not needed	
	Eye Protection	at normal contact not needed	
	Skin and Body Protection	at normal contact not needed	

9.	Physical and Chemical Characteristics	
	Appearance	Solid
	Colour	Off white
	Odour	None
	Relative Density	Not applicable
	Solubility in water	Insoluble
	Ph (if in water, % Conc.)	Not determined
	Boiling Point	Not applicable
	Vapour Pressure (mm Hg)	Not applicable
	Vapour Density	Not applicable
	Flash Point	Not applicable
	Flammability Limits in Air (% by Volume)	Not applicable
	Auto Flammability	Not applicable
	Explosive Properties	Not applicable
	Oxidizing Properties	Not determined

10.	Stability and Reactivity				
10.1	Stability	Stable			
10.1	Conditions to avoid	None Known			
10.2	Hazardous Reactions	Will not occur			
10.2	Conditions to avoid	None known			
10.3	Materials to avoid None known				
10.4	Hazardous Decompositions Products   None ascertained				

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11.	Toxicological Information							
	The TLV's (Threshold Limit Values) of the chemicals released in the aerosol phase are							
	applicable only in case of long , as long as a complete professional life, exposure. This is not the							
	case of a real life situation.							
	Product							
	The potential damage is	s not caused by the p	product mixture composition, but by the fact that it is					
11.1	respirable. The TLV's a	pply in case of long e	exposure , sometimes exposure during a complete					
11.1	professional life , whilst	in this case is once of	only and short (in case of accidental discharge when					
		evacuation does not take place on time)						
	In case of fire the toxicit	e itself and the products involved in the fire						
	Components							
	Potassium Nitrate	Toxicity	Oral LD50 (rat) 3750 mg/Kg					
		Target Organs	Blood, central nervous system					
	Potassium Carbonate	Toxicity	Oral LD50 (rat) 1870 mg/Kg ,					
11.2			Oral LD50 (mouse) 2570 mg/Kg					
		Target Organs	Respiratory system					
	Magnosium	Toxicity	Oral LD <sub>50</sub> (dog) 230 mg/Kg					
	Magnesium	Target Organs	Central nervous system, liver, kidneys					
		Toxicity	Oral LD50 (rat) 11.4 g/Kg					
11.2	Epoxy Resin Polymer	Irritation Data	Skin (guinea pig) 2750 mg/55 days Inert					
	_	וווומווטוו טמומ	Eye (rabbit) 100 mg Mild					

12.	Ecological Information				
40.4	Mobility	as per available data no effect			
12.1	Absorption/Desorption	as per available data no effect			
	Degradability	as per available data no effect			
12.2	Biotic and Abiotic Degradation	as per available data no effect			
12.2	Aerobic and Anaerobic Degradation	as per available data no effect			
	Persistence	as per available data no effect			
	Accumulation	as per available data no effect			
12.3	Bioaccumulation Potential	as per available data no effect			
	Biomagnification	as per available data no effect			
	Short and Long Term Effects on				
	Ecotoxicity	as per available data no effect			
12.4	Aquatic Organisms	as per available data no effect			
	Soil Organisms	as per available data no effect			
	Plants and Terrestrial animals	as per available data no effect			
	Other Adverse Effects				
	Ozone Depleting Potential (ODP)	none			
12.5	Photochemical Ozone Creation Potential	none			
	Global Warming Potential (GWP)	none			
	Effects on Waste Water Treatment Plants	as per available data no effect			

13.	Disposal Considerations
13.1	Dispose of in Compliance with local, state and national regulations

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14.	Transport Information					
	Air Transport (ICAO-IATA / DGR)					
	UN Number	3335	3335			
	UN proper shipping name	Aviation regulate	ed solid	d,n.o.s.* (contains po	otassium nitrate)	
	Transport Hazard class	ICAO / IATA Class 9				
	Oldoo	ICAO / IATA Subrisk Not Applicable				
	Environmental hazard	Not Applicable				
14.1		Cargo Only Pack	king In	structions	956	
		Cargo Only Max	imum	Qty/Pack	400 kg	
		Passengers and Instructions	Cargo	Packing	956	
	Special Precautions for user	Passenger and ( Pack	Cargo	Maximum Qty /	400 kg	
		Passenger and Cargo Limitited Quantity Packing Instructions		Limitited Quantity	Y956	
		Passenger and Cargo Limited Maximum Qty / Pack		30 kg G		
	Sea Transport (IMDG – Code)					
	UN Number	Not Applicable				
	Packing Group	Not Applicable				
	UN proper shipping name	Not Applicable				
	Environmental hazard	Not Applicable				
	Transport hazard	IMDG Class	Not A	Applicable		
14.2	(classes)	IMDG Subrisk	IMDG Subrisk Not Applicable			
	Special precautions	EMS Number	EMS Number Not Applicable			
	for user	Special provision			to the provisions of this Code	
					ct to provisions governing the	
		Limited Quantitie			erous goods by other modes).	
	Land transport (ADR)  Limited Quantities Not Applicable					
	UN Number	Not Applicable				
	Packing Group	Not Applicable  Not Applicable				
14.3	UN proper shipping name	Not Applicable				
1.0	Environmental hazard	Not Applicable				
	Transport hazard	Class	Not	Applicable		
	class(es)	Subrisk Not Applicable				
	Special precautions	Special provisions		106 (Not Subject to ADR)		
	for user	Limited quantity Not Applicable				

	15.	Regulatory Information				
		Limit Values for exposure	None listed			
		EINECS Status	All components are included in EINECS inventories			
		Restrictions on Marketing and Use	None (Refer to any other national measures that may be relevant			

16.	Other Information
16.1	None Known

<u>Disclaimer</u>

The data in the above safety data sheet reflect the current state of knowledge of our product and shall be used only as a guideline.

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