

坚瑞应急 XI'AN J&R SAFETY EMERGENCY EQUIPEMENT CO., LTD.

Material Safety Data Sheet

Issuing Date: January 6th, 2014 Updated Date: June 16th, 2014

Section 1: Identification of the Substance/Company		
Commodity	JE-50/JE-100/ JE-150 (Portable Nano Particles disposable Fire Extinguisher)	
Manufacturer/	Xi'an J&R Safety Emergency Equipment Co., Ltd.	
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	China 710065	
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Section 2: Composition/Information on Ingredients			
Component Chemical Entity CAS No.			
Potassium Nitrate	KNO ₃	7757-79-1	
Melamine	C ₃ H ₆ N ₆	108-78-1	
Phenolic resin	$(C_6H_6O)_n$ (CH ₂ O)	9003-35-4	

Section 3: Hazard Identification		
JE	AEROSOL-GENERATING COMPOUND	AEROSOL
static electricity or heating	flammable	May cause temporary, mild irritation if
above 300°C may cause		inhaled or eye contact.
activation		
It would cause burn if touch	When combusted produces aerosol	
the metal of front cover		
within 10 min after discharge		

Section 4: First Aid Measure		
First-Aid measure a	are referred to acute exposure and/or chronic ove	r exposure
Contact Method	AEROSOL-GENERATING COMPOUND	AEROSOL
Inhalation	N/A	Remove to fresh air, lie down, and rest. If not breathing –apply artificial respiration. Oxygen maybe given but only under supervision of trained person.
Eye Contact	hold eyes open and wash with water.	Remove to fresh air and wash with water.
Skin contact	Change clothing and shoes, Wash skin with soap.	Wash affected areas with water.
Seek medical attention for further treatment, observation, and support if necessary.		



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Section 5: Fire Fighting Measure		
JE	AEROSOL-GENERATING COMPOUND	AEROSOL
If burning, use water fog	If burning out of control, put out the fire with water	N/A
or spray, carbon dioxide,	ray, carbon dioxide, fog or spray, carbon dioxide, dry powder or foam.	
dry powder or foam.	Wear personal protecting equipment and clothing.	

Section 6: Accidental	Release Measures
AEROSOL-GENERATING COMPOUND	AEROSOL
No smoking or naked flame. Clear the area of all personnel.	Keep ventilate till aerosol drop away, clean up the
Do not walk on material. Keep combustibles such as wood,	discharge residue.
paper, oil and etc away from spilled material. Collect for	
further dealing with of spilled material. Then, if practicable,	
hose the area with water.	

Section 7: Handling and Storage		
Handling Precautions	Keep away from combustion source, high temperature and keep ventilate and dry.	
Storage Precautions	Keep away from combustion source, high temperature and keep ventilate and dry.	
Storage Class	4.1	

Section 8: Exposure Controls and Personal Protection	
Exposure	Keep ventilate during manufacture and operation.
Personal Protection	Protective gloves, goggles and anti-static clothing should be worn during a production
	and spilled material clean up procedure. Fireproof and heat insulation clothing, helmeted
	and shoe cover shall be worn during fire extinguishing procedure.

Parameters	Aerosol-Generating Compound	Aerosol
Appearance	solid	Smog
color	Earthy yellow	White
odor	N/A	short pungent smell
Relative density	1.66 g/cm ³	1.29Kg/m ³
PH (if in water % Conc.)	9 (saturated solution)	11 (saturated solution)
Auto Flammability	Above 300°C, or open flame	Non-combustible
Explosive Properties	Loose form , possible to explode	Unexplosive

Section 10: Stability and Reactivity		
Stability	Stable under normal temperature conditions	
Conditions to avoid	Avoid heat, flames and other sources of ignition, avoid contact with	
	water or organic solves	
Hazardous Reaction products	Combustion produces potentially hazardous carbon monoxide CO and	
nitrogen oxides NOx.		
The agent is extremely stable below 125°C. It should be protected from fire, sources of electrical power, shock,		



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and high temperatures.

Section 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 not caused by the product mixture composition, but by the fact that it is respirable. The TLV's apply in case of long exposure, sometimes exposure during a complete professional life, whilst in this case is once only and short (in case of accidental discharge when evacuation does not take place on time).

Components

Potassium Nitrate	Toxicity	Acute oral toxicity(LD50): 1901mg/kg [rabbit] 3750mg/kg[rat]
Melamine	Toxicity	Toxic Dose LD 50: 3248mg/kg(oral, rat)
Phenolic resin	Toxicity	Not available

Section 12: Ecological Information

Present no ecological hazards,

ODP(Ozone depletion potential)=0

GWP(Global warming potential)=0

ALT(Atmospheric life time)=Low

Section 13: Disposal Considerations

Should be disposed separately from other materials,

Comply with local, state, federal and international regulations for flammable materials

Section 14: Transportation Information		
Proper shipping name	Flammable Solid, Inorganic	
Hazard Class or Division	4.1	
UN No. 3178		
Packing Group III		
Division 4.1 articles present no significant hazard as packaged for transport.		

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Section 15: Regulatory Information

For the Following Components:

The EU classification and R&S phrases, referred to the components of the Solid bound compound related only to the single components considered as separate chemical entities. Once mixed in the production of the solid bound compound, the risk sentences of the single components are not applicable being the solid bound compound a separate chemical entity.

Potassium	EU Classification	Oxidizer	
Nitrate	R Phrase	8	Contact with combustible material may cause fire
	S Phrase	16	Keep away from sources of ignition - No smoking
		41	In case of fire and/or explosion, do not breathe fumes.



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Melamine	EU Classification	Oxidizer	
	R Phrase	22	Harmful if swallowed
	S Phrase	36	Wear suitable protective clothing
		37	Wear suitable gloves
Phenolic resin	EU Classification	Not available	
		24/25	Toxic in contact with skin and if swallowed.
	R Phrase	34	Causes burns
Limit Value for Exposure		None listed	
EINECS Status		All components are included in EINECS inventories	
Restrictions on Marking and Use		None	

Section 16: Other Information



Flammable Solid, Class 4.1

Comply with manufacturer's installation and maintenance procedures.

Disclaimer:

The information contained herein is accurate to the best knowledge and belief of J&R, and is intended to describe the product for health, safety, and environmental requirements only. It is not intended and should not be construed as a warranty. Consult J&R Group for further information.