Safety Data Sheet

Date of issue: 26 Aug. 2016

1.Substance identity and com Product name:	npany contact information	OneFire Sterling PMC		
Troudet flame.	Company:	MITSUBISHI MATERIALS TRADING CORPO	RATION	
	Address:	NIHONBASHI HAMACHO F TOWER 17F,3-2		
		CHUO-KU,TOKYO 103-0007,JAPAN	· · · · · · · · · · · · · · · · · · ·	
	Telephone Number:	81-3-3660-1653		
	Emergency Telephone Number:	81-3-3660-1653		
	FAX Number:	81-3-3660-1498		
2.Hazards identification GHS classification				
	Physical and	Sort of Gunpowder	Out of classification	
	chemical hazards	Combustibility, Ignition gas	Out of classification	
		Combustibility, Ignition aerosol	Out of classification	
		Oxidizing gas	Out of classification	
		High pressure gas	Out of classification	
		Ignition liquid	Impossible to classify	
		Combustibility solid	Impossible to classify	
		Self reaction chemical	Out of classification	
		Spontaneous combustion liquid	Out of classification	
		Spontaneous combustion solid	Impossible to classify	
		Self heating chemical Water reaction combustibility chemical	Impossible to classify	
		Oxidizing liquid	Impossible to classify Out of classification	
		Oxidizing solid	Out of classification	
		Organic dioxide	Out of classification	
		Metal corrosive substance	Impossible to classify	
	Adverse human health	Acute toxicity(Oral)	Out of classification	
	effects	Acute toxicity(Dermal)	Out of classification	
		Acute toxicity(Inhalation: Gas)	Out of classification	
		Acute toxicity(Inhalation: Steam)	Out of classification	
		Acute toxicity(Inhalation: Dust)	Impossible to classify	
		Acute toxicity(Inhalation: Mist)	Impossible to classify	
		Skin corrosive, Irritation	Out of classification	
		Heavy injuries to eyes, Irritation	Division 2B	
		Sensitization of respiratory organs Sensitization of skin	Impossible to classify Out of classification	
		Variation of germ cell	Impossible to classify	
		Carcinogenicity	Impossible to classify	
		Genital toxicity	Out of classification	
		Specific target organs, General toxicity	Out of classification	
		(Single exposure)	Out of classification	
		Specific target organs, General toxicity	Out of classification	
		(Repetition exposure)		
		Hazardous of Inhalational respiratory orga	ar Impossible to classify	
	Environmental effects	Acute hazardous to the	Impossible to classify	
		Chronic hazardous to the	Impossible to classify	
		Hazardous to the ozone layer	Impossible to classify	
Label element				
	Alert Words:	Warning		
	Hazards information:	Eye irritation		
		Causes damage to organs (Eyes, Respiratory organs(inhalation) or lungs) through prolonged or repeated exposure Can be hazardous by long-term influence. May cause an allergic skin reaction.		
	Specific danger/hazard	When the product is heated to a high temperature, organic binder's gas may be generated.		
	Caution:	generated.		
		Though rare, it is possible for some individuals to experience skin rash or itichiness after contact with PMC sterling. If you have a reaction, discontinue use and consult a physician.		
		Wash hands after use; do not ingest and keep out of the reach of children. Take care to avoid burn injury.		

- [First aid] In case of inhaling, move sufferers to place filled with fresh air, and let repose with posture easy to breath.

 - If having indisposition, arrange for transport to nearest medical facility for examination and treatment by a physician.
 - If on skin: wash with plenty of soap and water.
 - If skin irritation or rash occurs: get medical advice/attention.
 - If get into eyes: gently rinse the affected eyes with clean water, in case of
 - wearing contact lens, better to remove them.
 - If constant eye irritation: receive medical treatment.
 - If chemical exposure or its risk: receive medical treatment.
- [Storage] Keep in room tempareture, avoid high temparature and humidity
 - Do not put it in a refrigerator
- [Disposal] No information

3. Chemical composition and data on components Chemical substance

Chemical name or common name	Abbreviation	Content (wt%)	Eaw concerning the Examination and Regulation of Manufacture, etc., of Chemical Substances	Industrial Safety and Health Law	CAS No.
Silver	Ag	>85.3%		Article 18.2, Attached Table 9-137 of Cabinet order (as element)	7440-22-4
Copper oxiside	CuO	<4.4%	Except from the law (as element)	Article 18.2, Attached Table 379	1317-38-0
organic binder Water	-	balance	-	-	-

4.First-aid measures						
Inhalation:		Move sufferers to place filled with fresh air, and let repose with posture easy to breath. If having indisposition, arrange for transport to nearest medical facility for examination and treatment by a physician.				
Skin contact:		Flush with water and soap as soon as possible.				
		If skin irritation or rash occurs: Get medical advice/attention.				
Eye contact:		Gently rinse the affected eyes with clean water. In case of wearing contact lens,				
		better to remove them. Arrange for transport to nearest medical facility for examination and treatment				
		by a physician.				
Ingestion:		Brush away or rinse inside a mouth with water, and see a doctor.				
Ingestion		If having indisposition, arrange for transport to nearest medical facility for examination				
		and treatment by a physician.				
		Follow doctor's instruction whether or not to induce vomiting when unconscious.				
Expected acute sym	nptom or in	Influence of long-term or repetition exposure: Likely to give arise				
behind:		discoloration (silver stain; silver intoxication) of eyes, nose, throat or skin.				
		Eye: Irritate mucous membrane, red and sore eye.				
Most important indi	cations or	No information.				
symptom:						
Protection for rescuer:		No information.				
Special caution for p	physician:	No information.				
5.Fire-fighting measure	25					
Extinguish media:		Water,powder,CO2				
Forbidden extinguish media:		No information.				
6.Accidental release me						
	nan body, protective and	No information.				
emergency measure		No mornadon.				
Caution for the envi		No information.				
Retrieve, Neutraliza		Sweep leakages and retrieve empty containers. Afterward dispose it.				
Containment and cleaning way :		Stop leaking if not in danger.				
Prevention of secondary disaster:		No information.				
7.Handling and storage						
Handling:						
nananng.	Technical measure:	Do appropriate engineering controls and use proper personal protective equipment as				
	recifical measure.	indicated in Section 8.				
	Ventilation:	Do appropriate ventilation as indicated in Section 8.				
	Caution for	Obtain special instructions before use.				
	safety handling:	Do not eat, drink or smoke while using.				
		Use at well-ventilated area only.				
		Wash hands carefully after use.				
		Make efforts to keep the working place tidy and in order, and keep away				
		from fire.				
	Avoidance of contact:	Refer to Section 10.				

Storage:	Technical measure:	Keep in roon	n tempareture,	, avoid high tem	parature and humidity
	Conditions to storage: Materials of containers or package:		in a refrigerat	or	
8.Exposure control and per	sonal protection				
Control concentration.		[Ag]			[CuO]
Control concentration: Allowance concentratior	n (Exposure limit	No set TLV-TWA :			No set TLV-TWA :
Biological exposure indi		0.1mg/m^3			1mg/m ³
Engineering Controls:		In case of ha Use adequat	-		
Personal Protective Equ	ipment:	-			
	Hands:		priate protectiv	-	
	Eyes:				andard glasses type,
	Skin and Body:			e face protection	gles type) or face shield.
Sanitary measure:	Skin and Douy.		carefully after		15.
			culoruny area		
9.Physical and chemical pro	operties				
		[Ag]			[CuO]
Odor:		Odorless			Odorless
pH : Melting point,		No data 962℃(Meltin	a Point)		No data 1026℃(Melting Point)
Coagulating point:			ig i onic)		1020 C(Ficking Fond)
Boiling point, Initial boil Boiling range:	ling point and	2212℃ (Boil	ing Point)		resolution
Flash point:		No data			No data
Explosion range:		No data			No data
Steam pressure:		0.0000056	5Pa (25℃)(Co	onversion value)	No data
Steam density(Air=1):		No data			No data
Specific Gravity: Solubility:		10.5g/cm ³ Insoluble(Wa	ator)		6.32g/cm ³ Insoluble(Water)
Octanol/Water Partition	Coefficient:	No data	ater)		No data
Spontaneous combustic		No data			No data
temperature:					
Decomposition tempera	ature:	No data			No data
Threshold of odor:		No data			No data
Evaporation speed		No data			No data
(Butyl acetate= 1):		N			N. I.
Combustion property(S	olia, Gas):	No data			No data
Viscosity:		No data			No data
10.Stability and reactivity Chemical Stability: Incompatibilities with Other Materials:		Stable at roo No imfomatio		e and in the air.	
Conditions to Avoid: Hazardous Polymerizati Hazardous Decompositi Products:		avoid high te No imfomatio No imfomatio		d humidity	
11.Toxicological informatio	n				
	Acute toxicity:	Oral	Rat	LD ₅₀	
	,	[Ag]			[CuO]
		>5,000mg/			470mg/kg
	Skin corrosive, Irritation:	No data.	(5		
	Heavy injuries to	Eye irritation	(Division 2B)		
	eyes•Irritation: Sensitization of	Sensitization	of respiratory	organs: No data	a
	respiratory organs or		of skin: No da	-	
	Variation of germ cell :	No data			
	Carcinogenicity:	No data.			

	Genital toxicity:	No data
	Specific target organs,	No data
	General toxicity	
	(Single exposure):	
	Specific target organs,	No data
	General toxicity	
	(Repetition exposure):	
	Hazardous of Inhalational	No data
	respiratory organs :	
12. Ecological information		
Acute hazardous to the		Impossible to classify because of insufficient data.
	ne aquatic Environmental:	Impossible to classify because of insufficient data.
Ecological toxicity:		No data No data
Hazardous to the ozone	ayer:	
13.Disposal considerations		
The rest of waste,		No data
contaminated vessel :		
14.Transport information International regulation	s:	
international regulation	UN classification:	Not applicable to the criteria for classification.
	UN number:	Not applicable to the criteria for classification.
	UN proper shipping	Not applicable to the criteria for classification.
	Packing group:	Not applicable to the criteria for classification.
	Marine pollutant:	Not applicable to the criteria for classification.
	Domestic regulations: Special precautions:	Refer to laws and regulation that are applied. No information
	Emergency response	No information
	guideline number:	
15.Regulations In Japan		
	Industrial Safety and	[Ag]
	Health Act (Result of	Ag and its water-soluble compounds:
	Mutagenicity Tests):	Article 18-2, Attached Table 9-137 of
		Cabinet order
	Export trade control order	Not Identified
16.0ther information		
	The information is revised	by the new knowledge. Although the information herein is based on the best of our knowledge,
	we cannot guarantee the a	accuracy or completeness of the information contained.