

MATERIAL SAFETY DATA SHEET						
SECTION 1 Identification of the Substance/Preparation and of the Company						
1.1	Product Trade Name	MS Coat F				
1.2	Exporter:	Name	Sun Medical Co., Ltd.			
		Address	571-2 Furutaka-cho, Moriyama, Shiga, 524-0044, Japan			
		Telephone	81-77-582-9981			
		Facsimile	81-77-582-9984			
		e-mail	export@sunmedical.co.jp			
SECTION 2 Composition / Information on Ingredients						
		CAS No.	UN No.	Percent	Symbol	R-Phrase
	Preparation	----	----	----	----	----
	Ingredients	CAS No.	UN No.	Percent	Symbol	R-Phrase
	water	7732-18-5	----	balance	----	----
	copolymer with sulfonic acid group (MS copolymer)	118571-13-4	----	approx. 3%		----
	oxalic acid	6153-56-6	----	approx. 2%	----	----
	Sodium fluoride	7681-49-4	----	< 1%	----	----
SECTION 3 Hazards Identification						
3.1	Emergency overview	Weak acid. May cause irritation to skin and eyes.				
3.2	Potential health effects					
	Eye	May cause irritation and possible corneal injury.				
	Skin	May cause irritation.				
	Ingestion	May cause headache, dizziness, nausea, tinnitus or shock.				
SECTION 4 First-Aid Measures						
4.1	Eye	Immediately flush with flowing water for at least 15 minutes. Get medical attention.				
4.2	Skin	Flush with soap and plenty of water. Get medical attention if irritation develops or persists.				
4.3	Ingestion	Give several glasses of water or milk to drink. Get medical attention.				
SECTION 5 Fire-Fighting Measures						
5.0	Flammable properties	Not flammable				
5.1	Flash point	Not flammable		5.2 Autoignition temp.	N/A	
5.3	Flammable limit	N/A		5.4 Suitable extinguishing media	Use any means for extinguishing surrounding fire.	
5.5	Hazardous decomposition products	Toxic gasses such as carbon monoxide may be released in a fire.		5.6 Special protective equipment	During emergency conditions, over- exposure to thermal decomposition products may cause health hazard. Self-contained breathing apparatus should be worn.	
SECTION 6 Accidental Release Measures						
6.1	Personal precaution	For skin protection wear impervious protective gloves and clothing. For eye protection use safety goggle or a full-face shield.				
6.2	Environmental precautions	May be hazardous to the environment. Special attention should be given to water.				
6.3	Methods for cleaning-up	In case material is released or spilled, spread absorbent such as vermiculate or paper towel to absorb the material. Scoop up and place in a chemical waste container.				

SECTION 7 Handling and Storage			
7.1 Handling	Observe normal warehouse handling procedures. Protect against physical damages. Care should be taken not to contact glass materials.		
7.2 Storage	Store in a cool, dry and dark well-ventilated place. Store away from alkalis and direct sunlight. Do NOT store beyond 40°C.		
SECTION 8 Exposure Controls / Personal Protection			
8.1 Engineering measures			
Ventilation	Good general ventilation should be sufficient.		
Other protective equipment	Eye wash station near work area.		
8.2 Personal protection			
Respiratory protection	None required during normal use of this product.		
Hand protection	Use impervious protective gloves to prevent skin contact.		
Eye protection	Use safety glasses.		
Skin protection	Use impervious protective gloves to prevent skin contact.		
Exposure guideline	(oxalic acid) OSHA PEL: 1mg/m ³ (TWA). ACGIH TLV 2mg/m ³ (STEL).		
SECTION 9 Physical and Chemical Properties			
9.1 Appearance:	Whity, aqueous emulsion liquid	9.2 Odor	None
9.3 pH	approx. 1	9.4 Vapor density	Not known
9.5 Boiling point	100°C (water)	9.6 Solubility in water	Miscible with water at any ratio
9.7 Specific gravity	approx. 1		
SECTION 10 Stability and Reactivity			
10.1 Stability	Stable under ordinary conditions of use and storage.		
10.2 Conditions to avoid	Temperature beyond 30°C and below 1°C. Direct sunlight.		
10.3 Incompatibility (materials to avoid)	Glass, metals such as silver, iron and calcium, and their compounds. Strong bases and strong oxidant.		
10.4 Hazardous decomposition products	Toxic gasses such as carbon monoxide may be released in a fire.		
10.5 Hazardous polymerization	Will not occur.		
SECTION 11 Toxicological Information			
11.1 Health hazards (immediate, delayed, acute, chronic)	Contact with eyes and skin may cause irritation.		
11.2 Toxicity	(MS copolymer) LD ₅₀ (oral/mouse) >2,000mg/kg (oxalic acid) LD ₅₀ : (oral/mouse) 375mg/kg		
11.3 Mutagenicity	Negative		
11.4 Carcinogenicity	(ACGIH) No, (IARC) No		
SECTION 12 Ecological Information			
12.1 General	This substance may be hazardous to the environment; special attention should be given to water.		
12.2 Mobility	Not known.		
12.3 Degradability	Not known.		
12.4 Accumulation:	Not known.		
12.5 Ecotoxicity	Not known.		
12.6 Other adverse effects	Not known.		

SECTION 13 Disposable Considerations	
13.1 Danger in disposal	Should be handled as hazardous waste.
13.2 Disposal method	(Consult federal, state, and local regulations): Do not empty into sewer. Dilute with a large amount of water and send to waste water treatment facility.
SECTION 14 Transport Information	
14.1 Precautions for transport	Very weak corrosive liquid, acidic.
14.2 UN	----
14.3 IMDG	----
14.4 ICAO/IATA	----
SECTION 15 Regulatory Information	
15.1 RTECS	----
15.2 EU Classification	----
SECTION 16 Other Information	
16.1	Prepared / Revised in October 2012 by Sun Medical Co., Ltd.
16.2	This Product is for dental professional use only.
16.3	The information above is believed to be accurate. However, Sun Medical Co., Ltd. makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Users must take their own investigations to determine the suitability of the information and the Product for their particular purposes.