MATERIAL SAFETY DATA SHEET

CE430
05 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
CE430	13-AUG-08	Flammability	3
		Reactivity	0

PRODUCT NAME
Cross/FIRE® PLUS LCF Etching Primer

MANUFACTURER'S NAME
MARTIN SENOUR PAINTS
4440 Warrensville Center Road
Warrensville Hts., OH 44128-2837

TELEPHONE NUMBERS and WEBSITES
Regulatory Information
(216) 566-2902
Medical Emergency
(216) 566-2917
Transportation Emergency
(800) 424-9300
for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
2	108-88-3	Toluene				
			ACGIH TLV	20	ppm	22 mm
			OSHA PEL	100	ppm (Skin)	
			OSHA PEL	150	ppm (Skin) STEL	
0.3	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
2	1330-20-7	Xylene				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	
18	67-63-0	2-Propanol				
			ACGIH TLV	200	ppm	33 mm
			ACGIH TLV	400	ppm STEL	
			OSHA PEL	400	ppm	
10	123-42-2	Diacetone Alcohol				
			ACGIH TLV	50	ppm	1.2 mm
			OSHA PEL	50	ppm	
2	111-76-2	2-Butoxyethanol				
			ACGIH TLV	20	ppm	0.88 mm
			OSHA PEL	25	ppm	

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14	107-87-9	Methyl n-Propyl Ketone				
		ACGIH TLV	150	ppm STEL		27.8 mm
		OSHA PEL	200	ppm		
		OSHA PEL	250	ppm STEL		
3	108-10-1	Methyl Isobutyl Ketone				
		ACGIH TLV	50	ppm		16 mm
		ACGIH TLV	75	ppm STEL		
		OSHA PEL	50	ppm		
		OSHA PEL	75	ppm STEL		
5	110-43-0	Methyl n-Amyl Ketone				
		ACGIH TLV	50	ppm		3.855 mm
		OSHA PEL	100	ppm		
1	108-21-4	Isopropyl Acetate				
		ACGIH TLV	250	ppm		47.5 mm
		ACGIH TLV	310	ppm STEL		
		OSHA PEL	250	ppm		
		OSHA PEL	310	ppm STEL		
5	763-69-9	Ethyl 3-Ethoxypropionate				
		ACGIH TLV	Not Available			1.11 mm
		OSHA PEL	Not Available			
6	25068-38-6	Epoxy Polymer				
		ACGIH TLV	Not Available			
		OSHA PEL	Not Available			
1	1332-58-7	Kaolin				
		ACGIH TLV	2	mg/m3 as Resp. Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		
2	14807-96-6	Talc				
		ACGIH TLV	2	mg/m3 as Resp. Dust		
		OSHA PEL	2	mg/m3 as Resp. Dust		
9	7727-43-7	Barium Sulfate				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		
3	13463-67-7	Titanium Dioxide				
		ACGIH TLV	10	mg/m3 as Dust		
		OSHA PEL	10	mg/m3 Total Dust		
		OSHA PEL	5	mg/m3 Respirable Fraction		
0.1	1333-86-4	Carbon Black				
		ACGIH TLV	3.5	mg/m3		
		OSHA PEL	3.5	mg/m3		

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

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EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
May cause allergic skin reaction in susceptible persons or skin sensitization.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. If irritation persists or occurs later, get medical attention. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
48 F SETA	1.0	12.7

FLAMMABILITY CLASSIFICATION
RED LABEL -- Flammable, Flash below 100 F (38 C)
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

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Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

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Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.72 lb/gal	1045 g/l
SPECIFIC GRAVITY	1.05	
BOILING POINT	178 - 343 F	81 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	78 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

5.43 lb/gal	651 g/l	Less Water and Federally Exempt Solvents
5.43 lb/gal	651 g/l	Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TOXICOLOGY DATA

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CAS No.	Ingredient Name					
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
1330-20-7	Xylene					
		LC50	RAT	4HR	5000	ppm
		LD50	RAT		4300	mg/kg
67-63-0	2-Propanol					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5045	mg/kg
123-42-2	Diacetone Alcohol					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		4000.	mg/kg
111-76-2	2-Butoxyethanol					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		470	mg/kg
107-87-9	Methyl n-Propyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		1600	mg/kg
108-10-1	Methyl Isobutyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		2080	mg/kg
110-43-0	Methyl n-Amyl Ketone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		1670	mg/kg
108-21-4	Isopropyl Acetate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3000	mg/kg
763-69-9	Ethyl 3-Ethoxypropionate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5000	mg/kg
25068-38-6	Epoxy Polymer					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
1332-58-7	Kaolin					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
14807-96-6	Talc					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
7727-43-7	Barium Sulfate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
13463-67-7	Titanium Dioxide					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
1333-86-4	Carbon Black					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

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Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):
UN1263, PAINT, 3, PG II, (ERG#128)

Canada (TDG)
UN1263, PAINT, CLASS 3, PG II, (ERG#128)

IMO
UN1263, PAINT, CLASS 3, PG II, (9 C c.c.), EmS F-E, S-E

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	2	
100-41-4	Ethylbenzene	0.2	
1330-20-7	Xylene	2	
108-10-1	Methyl Isobutyl Ketone	3	
	Zinc Compound	3	0.9
	Glycol Ethers	2	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.