

# MATERIAL SAFETY DATA SHEET

CS293  
04 00

## Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES
CS293	13-AUG-08	Health 2* Flammability 3 Reactivity 0

PRODUCT NAME  
CROSSFIRE® 2K Acrylic Urethane Sealer (Part A)

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	
6	98-56-6	p-Chlorobenzotrifluoride		
		ACGIH TLV	Not Available	5.3 mm
		OSHA PEL	Not Available	
16	67-64-1	Acetone		
		ACGIH TLV	500 ppm	180 mm
		ACGIH TLV	750 ppm STEL	
		OSHA PEL	1000 ppm	
6	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	
20	123-86-4	n-Butyl Acetate		
		ACGIH TLV	150 ppm	10 mm
		ACGIH TLV	200 ppm STEL	
		OSHA PEL	150 ppm	
		OSHA PEL	200 ppm STEL	
6	108-65-6	1-Methoxy-2-Propanol Acetate		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
11	14807-96-6	Talc		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	

Continued on page 2

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5	471-34-1	Calcium Carbonate	ACGIH TLV	10	mg/m3	as Dust
			OSHA PEL	15	mg/m3	Total Dust
			OSHA PEL	5	mg/m3	Respirable Fraction
9	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
0.3	1333-86-4	Carbon Black	ACGIH TLV	3.5	mg/m3	
			OSHA PEL	3.5	mg/m3	

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### Section 3 -- HAZARDS IDENTIFICATION

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#### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

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

#### 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 respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

#### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

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### Section 4 -- FIRST AID MEASURES

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EYES: Flush eyes with large amounts of water for 15 minutes.  
Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.

INHALATION: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.

INGESTION: Do not induce vomiting.  
Get medical attention immediately.

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Section 5 -- FIRE FIGHTING MEASURES

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FLASH POINT	LEL	UEL
70 F SETA	0.9	13.1

## 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

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

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Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

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Section 7 -- HANDLING AND STORAGE

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## 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.

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Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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## PRECAUTIONS TO BE TAKEN IN USE

NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.

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/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (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

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.

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

To prevent skin contact, 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 barrier cream on exposed skin.

## OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

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

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Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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PRODUCT WEIGHT	9.42 lb/gal	1128 g/l
SPECIFIC GRAVITY	1.13	
BOILING POINT	132 - 302 F	55 - 150 C
MELTING POINT	Not Available	
VOLATILE VOLUME	73 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

Continued on page 5

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VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

4.56 lb/gal	547 g/l	Less Water and Federally Exempt Solvents
3.29 lb/gal	395 g/l	Emitted VOC

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Section 10 -- STABILITY AND REACTIVITY

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STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

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Section 11 -- TOXICOLOGICAL INFORMATION

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## CHRONIC HEALTH HAZARDS

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

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.

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## TOXICOLOGY DATA

CAS No.	Ingredient Name					
108-88-3	Toluene	LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
98-56-6	p-Chlorobenzotrifluoride	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
67-64-1	Acetone	LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
108-10-1	Methyl Isobutyl Ketone	LC50	RAT	4HR	Not Available	
		LD50	RAT		2080	mg/kg
123-86-4	n-Butyl Acetate	LC50	RAT	4HR	2000	ppm
		LD50	RAT		13100	mg/kg
108-65-6	1-Methoxy-2-Propanol Acetate	LC50	RAT	4HR	Not Available	
		LD50	RAT		8500	mg/kg
14807-96-6	Talc	LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
471-34-1	Calcium Carbonate	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

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## ECOTOXICOLOGICAL INFORMATION

No data available.

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Section 13 -- DISPOSAL CONSIDERATIONS

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## 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.

Continued on page 7

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Section 14 -- TRANSPORT INFORMATION

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## 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 &amp; Reportable Quantities

Acetone 5000 lb RQ  
n-Butyl acetate 5000 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, (21 C c.c.), EmS F-E, S-E

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Section 15 -- REGULATORY INFORMATION

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## SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	2	
108-10-1	Methyl Isobutyl Ketone	6	

## CALIFORNIA PROPOSITION 65

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

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

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Section 16 -- OTHER INFORMATION

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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.