

# MATERIAL SAFETY DATA SHEET

CS278  
07 00

## Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

|                |                     |   |
|----------------|---------------------|---|
| PRODUCT NUMBER | DATE OF PREPARATION | HMIS CODES                                  |
| CS278          | 13-AUG-08           | Health 2*<br>Flammability 3<br>Reactivity 0 |

PRODUCT NAME  
CROSSFIRE® 3.5 Enamel Sealer, Off-White

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 |
|---------|------------|------------------------------|-----------------------|----------------|
| 1       | 64742-94-5 | Medium Aromatic Hydrocarbons |                       |                |
|         |            | ACGIH TLV                    | Not Available         | 0.12 mm        |
|         |            | OSHA PEL                     | Not Available         |                |
| 0.2     | 91-20-3    | Naphthalene                  |                       |                |
|         |            | ACGIH TLV                    | 10 ppm                | 1 mm           |
|         |            | ACGIH TLV                    | 15 ppm STEL           |                |
|         |            | OSHA PEL                     | 10 ppm                |                |
|         |            | OSHA PEL                     | 15 ppm STEL           |                |
| 7       | 98-56-6    | p-Chlorobenzotrifluoride     |                       |                |
|         |            | ACGIH TLV                    | Not Available         | 5.3 mm         |
|         |            | OSHA PEL                     | Not Available         |                |
| 4       | 67-63-0    | 2-Propanol                   |                       |                |
|         |            | ACGIH TLV                    | 200 ppm               | 33 mm          |
|         |            | ACGIH TLV                    | 400 ppm STEL          |                |
|         |            | OSHA PEL                     | 400 ppm               |                |
| 3       | 67-64-1    | Acetone                      |                       |                |
|         |            | ACGIH TLV                    | 500 ppm               | 180 mm         |
|         |            | ACGIH TLV                    | 750 ppm STEL          |                |
|         |            | OSHA PEL                     | 1000 ppm              |                |
| 20      | 110-43-0   | Methyl n-Amyl Ketone         |                       |                |
|         |            | ACGIH TLV                    | 50 ppm                | 3.855 mm       |
|         |            | OSHA PEL                     | 100 ppm               |                |
| 6       | 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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|    |            |                   |    |       |                     |
|----|------------|-------------------|----|-------|---------------------|
| 6  | 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 |
| 7  | 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 |
| 12 | 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 |

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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 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

None generally recognized.

#### 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 affected, remove from exposure. Restore breathing.  
Keep warm and quiet.

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 PMCC   | 0.8 | 12.8 |

#### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100 F (38 C)

Continued on page 3

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**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**

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**

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.

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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 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

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|  |  |            |
|--|--|------------|
| PRODUCT WEIGHT   | 10.80 lb/gal                             | 1294 g/l   |
| SPECIFIC GRAVITY   | 1.30                                     |            |
| BOILING POINT  | 132 - 415 F                              | 55 - 212 C |
| MELTING POINT  | Not Available                            |            |
| VOLATILE VOLUME  | 55 %                                     |            |
| EVAPORATION RATE   | Slower than ether                        |            |
| VAPOR DENSITY  | Heavier than air                         |            |
| SOLUBILITY IN WATER  | N.A.                                     |            |
| VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged) |  |            |
| 3.41 lb/gal 408 g/l  | Less Water and Federally Exempt Solvents |            |
| 3.00 lb/gal 359 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."

Continued on page 5

## TOXICOLOGY DATA

| CAS No.    | Ingredient Name              |      |     |     |               |
|------------|------------------------------|------|-----|-----|---------------|
| 64742-94-5 | Medium Aromatic Hydrocarbons |      |     |     |               |
|            |                              | LC50 | RAT | 4HR | Not Available |
|            |                              | LD50 | RAT |     | Not Available |
| 91-20-3    | Naphthalene                  |      |     |     |               |
|            |                              | LC50 | RAT | 4HR | Not Available |
|            |                              | LD50 | RAT |     | Not Available |
| 98-56-6    | p-Chlorobenzotrifluoride     |      |     |     |               |
|            |                              | LC50 | RAT | 4HR | Not Available |
|            |                              | LD50 | RAT |     | Not Available |
| 67-63-0    | 2-Propanol                   |      |     |     |               |
|            |                              | LC50 | RAT | 4HR | Not Available |
|            |                              | LD50 | RAT |     | 5045 mg/kg    |
| 67-64-1    | Acetone                      |      |     |     |               |
|            |                              | LC50 | RAT | 4HR | Not Available |
|            |                              | LD50 | RAT |     | 5800 mg/kg    |
| 110-43-0   | Methyl n-Amyl Ketone         |      |     |     |               |
|            |                              | LC50 | RAT | 4HR | Not Available |
|            |                              | LD50 | RAT |     | 1670 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 |
| 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 |

## 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.

Continued on page 6

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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)

## Bulk Containers may be Shipped as:

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

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| CAS No. | CHEMICAL/COMPOUND | % by WT | % Element |
|---------|-------------------|---------|-----------|
| 91-20-3 | Naphthalene       | 0.1     |           |

## 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.