

**Safety Data Sheet**  
Florothane CRU Polyol Base Satin

**Florock**  
R1-052

**Product Identification**

**Section 1**

Product Identifier R1-052  
Product Name Florothane CRU Polyol Base Satin Part B  
Synonyms Urethane coating  
Product Usage Floor coating  
Company Crawford Laboratories, Inc  
1120 W Exchange  
Chicago, IL 60609  
Phone 773-376-7132  
Chemtrec 800-424-9300

**Hazard Identification**

**Section 2**

GHS Classifications Flammable liquid: Category 1,  
Aspiration hazard: Category 1,  
Skin irritation: Category 3,  
Acute toxicity (Inhalation): Category 4,  
STOT (RE): Category 2,  
Carcinogenicity: Category 2

Signal Word **Danger**

Pictograms



Hazard Statements H226 Flammable liquid and vapor  
H304 May be fatal if swallowed and enters airways  
H316 Causes mild skin irritation  
H332 Harmful if inhaled  
H335 May cause respiratory irritation  
H351 Suspected of causing cancer  
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary Statements P201 Obtain special instructions before use.  
P202 Do not handle until safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fumes/gas/mist/vapors/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor  
P302+P352 If ON SKIN: Wash with plenty of water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P331 Do NOT induce vomiting.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional Hazard Information Percentage of mixture with unknown Acute Toxicity:  
*None*

### Composition Information of Ingredients

Section 3

Component	CAS No.	Weight %
Titanium Dioxide	13463-67-7	15-30
Polyol Resin	Proprietary	20-40
PM Acetate	108-65-6	10-20
Methyl n-Amyl Keytone	110-43-0	10-20
Xylene	Proprietary	1-5
TBA	540-88-5	20-40

*Where a range is displayed or the exact percentage of the component in the composition has been withheld it is considered a trade secret.*

*Ingredients not listed on this SDS are considered to be non-hazardous or below cut-off concentration limits for GHS classification.*

*According to the Globally Harmonized System of hazardous chemicals Titanium Dioxide is not considered hazardous; therefore, it is not included as a relevant ingredient in the process of classifying hazardous chemical mixtures.*

### First Aid Measures

Section 4

General Consult a physician. Show the physician this SDS. Move out of dangerous area immediately. Take off all contaminated clothing

immediately.

Inhalation	Move person to fresh air and breathe normally. If experiencing respiratory symptoms. Call POISON CENTER or doctor.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses if present. If eye irritation persists get medical attention.
Ingestion	Immediately call POISON CENTER or physician. DO NOT induce vomiting. Do not eat, taste, or ingest. Rinse mouth if person is conscious.
Skin	Take off all contaminated clothing. Rinse skin with water. Wash with soap and water. If skin irritation or rash occurs get medical attention.
Acute	Skin irritation, respiratory irritation
Delayed	Repeated exposure may cause skin irritation. Symptoms may be delayed for several hours upon exposure. Seek immediate medical attention.

#### Fire Fighting Measures

Section 5

Extinguishing Media	Carbon dioxide (CO <sub>2</sub> ), Foam, extinguishing powder, in cases of larger fires water spray should be used.
Extinguishing Methods	Water may be used to keep exposed containers cool, and to keep flammable structures wet.  Do not use a high volume water jet.
Special Protective Equipment	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.  During fire-fighting respirator with independent air-supply and airtight garment is required. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.
Special hazards	Carbon monoxide may form from incomplete combustion. Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, formaldehyde. In the event of fire and/or explosion do not breathe fumes.
Important additional information	Containers may explode upon exposure to excessive heat and fire situations. Sealed containers may explode if overheated.  Water may be used to keep exposed containers cool, and to keep flammable structures wet.  Do not enter fire area without proper protection because hazardous

decomposition products may be present.

#### Accidental Release Measures

#### Section 6

Personal precautions

*Protective equipment:* If air test dictates wear approved protective respirator, safety goggles, and chemical resistant gloves. Ensure adequate ventilation. Avoid breathing dust, vapors, spray, and fumes.

Avoid skin contact.

*Emergency procedures:* Evacuate personnel to safe areas.

Call CHEMTREC at 1-800-424-9300 for assistance and advice

Methods for clean up and disposal

Ventilate the contaminated area. Collect the material using absorbents or other equipment required by the size of the release. Decontaminate the area, collecting any cleaning and rinsing media for proper reclamation or disposal. Soak up with an absorbent and place in non-leaking containers. Seal tightly for disposal according to local and federal regulations.

Do not allow to escape into waterways, wastewater or soil.

#### Handling and Storage

#### Section 7

Precautions for safe handling

As with any chemical product, use good laboratory/workplace procedures. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash hands and skin before eating, smoking or using the facilities.

Avoid eye and skin contact. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product. Do not breathe vapors or dust.

Avoid formation of dust and aerosols.

Conditions for safe storage, including incompatibilities

Protect container from physical abuse. Keep the container tightly closed. Store in dry well-ventilated areas. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Do not reuse empty containers.

#### Exposure Controls/Personal Protection

#### Section 8

Component	CAS#	ACGIH/TLV	OSHA/PEL	*V/P
Polyol Resin	Proprietary	N/D	N/D	N/D
PM Acetate	108-65-6	N/D	N/D	4
Methyl n-Amyl Keytone	110-43-0	50 ppm	100 ppm	2.1

Xylene	Proprietary	100 ppm	100 ppm	N/D
TBA	123-86-4	724 mg/m <sup>3</sup>	966 mg/m <sup>3</sup>	N/D
Titanium Dioxide	13463-67-7	10 ppm	15 ppm	N/D

*\*Vapor Pressure limit*

#### Engineering Controls

Local Ventilation      Highly recommended. Use local and general engineering controls.

#### Personal Protective Equipment

Eye/Face protection      Protective safety goggles and/or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection      Handle with Neoprene gloves. Polyvinyl or Teflon gloves are recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection      If using in a poorly ventilated area, wear a properly fitted respirator (NIOSH approved) during exposure.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General Hygiene Considerations      Do not eat, drink, or smoke in areas where this material is used. Wash thoroughly after handling. Wash hands before eating, smoking, or touching the facial area.

#### Physical/Chemical Properties

Section 9

Physical state	Liquid
Appearance	White
Odor	N/D
Flashpoint	>101 F
Boiling range	208-304 F
Vapor density	Heavier than air
Liquid density	Heavier than water
Volatiles volume	42.4%

R1-052 (5/7)

Evaporation Rate	.34 x n-Butyl Acetate
pH	N/D
Vapor pressure	N/D
Relative density	1.02
Solubility	Insoluble
Partition coefficient	N/D
Auto Ignition temp	N/D

**Stability and Reactivity** Section 10

Chemical stability	Stable
Hazardous reactions	Contact with moisture, other materials that react with isocyanates Temperatures above 350 F which could cause polymerization
Conditions to avoid	Avoid spraying this material. Do not heat. Do not freeze.
Incompatible materials	Water, Amines, Strong bases, Alcohols, Copper alloys
Hazardous decomposition products	Toxic fumes at decomposition temperatures. Such as carbon dioxide, carbon monoxide, oxides of nitrogen

**Toxicological Information** Section 11

Name	CAS#	Oral LD50	Dermal LD50	Vapor LC50
Polyol Resin	Proprietary	5,000 mg/kg (Rat)	2,000 mg/kg (Rat)	N/D
PM Acetate	108-65-6	N/D	N/D	N/D
Methyl n-Amyl Keytone	110-43-0	8,532 mg/kg (Rat)	5,000 mg/kg (Rabbit)	N/D
Xylene	Proprietary	3523 mg/kg	4200 mg/kg	20 mg/l
TBA	540-88-5	10760 mg/kg	> 14112 mg/kg	23,4 mg/l

Routes of Exposure	Inhalation, skin, eyes, ingestion
Symptoms of Exposure	<i>Acute:</i> Coughing, irritated lungs, redness of eyes, breathing difficulty,  <i>Chronic:</i> Asthma, eye irritation/redness, respiratory irritation, skin disorders
Carcinogenicity	This product contains less than 5% Xylene which is classified as a category 2 in the GHS Carcinogenicity group.

**Ecological Information** Section 12

Keep out of sewers, drainage areas, and waterways. Report spills and atmospheric releases, as applicable, under Federal and State regulations.

## Disposal Considerations

Section 13

Dispose of container and unused contents in accordance with federal, state, and local requirements for hazardous materials.

## Transport Information

Section 14

DOT Proper Shipping	
Name:	Paint
Packing Group:	III
DOT Hazard Class:	3
DOT UN/NA Number:	UN1263

## Regulatory Information

Section 15

Contact manufacturer for information on specific territorial regulatory information.

## Other Information

Section 16

## NFPA/HMIS Rating

Health	2
Fire	2
Reactivity	0

The information provided in this **Safety Data Sheet** is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

Publication Date

2-02-2015