

# Material Safety Data Sheet



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## PRISM™ 2.8 VOC Acrylic Urethane System

## 28PRISM/N

- Section 2 - CAS No. Hazardous Ingredients (percent by weight)		ACGIH TLV <STEL>	OSHA PEL <STEL>	Units	Vapor Pressure (mm Hg)	64-series 2.8 VOC Intermixes Non-Lead Colors	Hardener 6496 2.8 Hardener	Accelerator 6595 Accelerator	Accelerator 6597 Accelerator
64742-88-7	Mineral Spirits	100	100	PPM	2.0			8	
98-56-6	p-Chlorobenzotrifluoride.	Not Established			5.3	9 - 15	34		
78-93-3 §	Methyl Ethyl Ketone.	200 <300>	200 <300>	PPM	70.0	0 - 5			
123-54-6	2,4-Pentanedione	Not Established			7.0				99
110-43-0	Methyl n-Amyl Ketone.	50	100	PPM	2.1	5 - 7			
927-49-1	Diamyl Ketone	Not Established			0.0	0 - 4			
5440-89-1	5-Ethyl-2-nonanone	Not Established			0.0	0 - 5			
590-01-2	n-Butyl Propionate.	Not Established			3.4	3 - 7			
123-86-4	n-Butyl Acetate.	150 <200>	150 <200>	PPM	10.0	5 - 11		87	
94-96-2	2-Ethyl-1,3-hexanediol	Not Established				1 - 2			
108-65-6	1-Methoxy-2-Propanol Acetate	Not Established			1.8	1 - 2			
Unknown	Hexamethylene Diisocyanate Polymer.	0.5 C 1		Mg/M3 Supplier Limit			66		
822-06-0	Hexamethylene Diisocyanate	0.005		PPM	0.05		0.1		
Proprietary	Sub. Cyclohexyldiaminoethyl Esters	Not Established				5 - 8			
13463-67-7	Titanium Dioxide.	10	10[5]	Mg/M3 [Resp. Fraction]		0 - 41			
1333-86-4	Carbon Black.	3.5	3.5	Mg/M3		0 - 2			
§	Zinc Compound [% Zinc]							5 [1.0]	
	Weight per Gallon (lbs.)					9 - 12	10.07	7.37	8.13
	Volatile Organic Compounds (VOC) - Total (lbs./gal.)					2.7 - 3.0	0.00	7.02	8.03
	VOC - Less Water & Federally Exempt Solvents (lbs./gal.)					3.1 - 3.4	0.00	7.02	8.03
	Photochemically Reactive					No	No	No	No
	Flash Point (°F)					80 - 95	120	72	96
	Flammability Classification					Flammable	Combustible	Flammable	Flammable
	DOL Storage Category					1C	2	1B	1C
	HMS (NFPA) Rating (health - flammability - reactivity)					2* - 3 - 0	3* - 2 - 1	2 - 3 - 0	2 - 3 - 0

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§ Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

**Section 3 – Physical Data**

PRODUCT WEIGHT	See TABLE	EVAPORATION RATE	Slower than Ether
SPECIFIC GRAVITY	0.98-1.44	VAPOR DENSITY	Heavier than Air
BOILING RANGE	174-573 °F	MELTING POINT	N.A.
VOLATILE VOLUME	0-98 %	SOLUBILITY IN WATER	N.A.

**Section 4 – Fire And Explosion Hazard Data**

FLAMMABILITY CLASSIFICATION	FLASH POINT	See TABLE	LEL	0.9	UEL	11.4
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See TABLE

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. 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.

**Section 5 – Health Hazard Data****ROUTES OF EXPOSURE**

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Alcohols and Acetates can be absorbed through the skin. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

**ACUTE Health Hazards****EFFECTS OF OVEREXPOSURE**

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**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.

**EMERGENCY AND FIRST AID PROCEDURES**

If INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air.

If problems remain or occur later, IMMEDIATELY get medical attention.

If on SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

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

If SWALLOWED: Get medical attention.

**CHRONIC Health Hazards**

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.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, immune and reproductive systems.

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

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

2-Ethyl-1,3-hexanediol is considered an animal teratogen. It has been shown to cause birth defects and reproductive disorders in laboratory animals. There is no evidence to indicate it causes birth defects in humans.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

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

**Section 6 – Reactivity Data**

STABILITY – Stable

CONDITIONS TO AVOID

None known.

**INCOMPATIBILITY**

Metallics contain Aluminum. Contamination with Water, Acids, or Alkalis can cause evolution of hydrogen, which may result in dangerously increased pressures in closed containers.

Contamination of hardener with Water, Alcohols, Amines, and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section 2

HAZARDOUS POLYMERIZATION – Will Not Occur

**Section 7 – Spill Or Leak Procedures****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate and remove with inert absorbent.

If hardener is spilled, all personnel in the area should be protected as in Section VIII. Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

**WASTE DISPOSAL METHOD**

Waste from these products 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. Waste from products containing Methyl Ethyl Ketone may also require testing for extractability.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

**Section 8 – Protection Information****PRECAUTIONS TO BE TAKEN IN USE**

NO PERSON SHOULD USE THESE PRODUCTS, OR BE IN THE AREA WHERE THESE PRODUCTS ARE 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 breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

These coatings 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**

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 THESE PRODUCTS ARE 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**

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.

**Section 9 – Precautions**

DOL STORAGE CATEGORY – See TABLE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

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.

**OTHER PRECAUTIONS**

These products 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.

**Section 10 – Other Regulatory Information****TSCA CERTIFICATION**

All chemicals in these products are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products 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.