MULTISPEC®

Multicolor Specialties, Inc.

MATERIAL SAFETY DATA SHEET

Per OSHA-recommended ANSI Z400.1-2004 standard format & in accordance with European standard format

DATE OF PREPARATION
May 10, 2010

1. Product and Company Identification

PRODUCT NUMBER: UF2101, UF2102, UF2103

PRODUCT: MULTISPEC ULTRAFINE

MANUFACTURER:
MULTICOLOR SPECIALTIES, INC.
1200 Storbeck Dr. PO Box 30
Waupun, Wi 53963

Telephone Numbers and Websites:
Product Information (800) 792-9505
www.multicolorpaint.com
Regulatory Information (800) 792-9505
Medical Emergency (920) 324-9505
Transportation Emergency* (800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*

2. Composition/Information on Ingredients

Chemical Name	CAS	Sec 313	%Wt.	OSHA PEL	ACGIH TLV
Water	7732-18-5		<76	NE	NE
Urethane polymer	TSRN 01350		<8	NE	NE
Acrylic polymer	TSRN 01368		<5.5	NE	NE
Titanium dioxide	13463-67-7		<5.5	10 mg/m3 as dust.	10 mg/m3 as dust
Silicone dioxide	112926-00-8		<2.2	10 mg/m3 as dust.	10 mg/m3 as dust
1-methyl-2-pyrrolidone	872-50-4	X	<2.2	100 ppm	100 ppm
2-butoxyethanol	111-76-2	X	<1.1	50 ppm	20 ppm

3. Hazards Identification

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.
In a confined area vapors in high concentration may cause headache, nausea or dizziness.
SIGNS AND SYMPTOMS OF OVEREXPOSURE:
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.

HMIS HAZARD RATING:

Health	Flammability	Physical Hazard	Personal Protection
1	0	0	I
HAZARD INDEX			
0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe			
PERSONAL PROTECTION CODE:			
I=Safety glasses, gloves, respirator			

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. 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.

5. Fire-fighting Methods

FLASH POINT: Not applicable.
FLAMMABILITY CLASSIFICATION: Not applicable.
EXTINGUISHING MEDIA:
Carbon dioxide, dry chemical, foam.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
During emergency conditions overexposure to incineration byproducts 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.

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.

7. Handling and Storage

STORAGE CATEGORY: Not applicable.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
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.

8. Exposure Controls and 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).
Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.
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.

9. Physical and Chemical Properties

Form	Viscous liquid
Flash Point	Product is non-combustible
Color	Multicolor variable
Odor	Slight
pH	8-10
Relative Density	1.08
Product Weight	9.0 lb/gal
Vapor Pressure	Not available
Boiling Point	212 deg. F
Solubility	Partial, colloidal dispersion
VOC (Material actual)	47 g/l; 0.38 lb/gal
VOC (Coating, regulatory, less water & exempts)	215 g/l; 1.77 lb/gal

10. Stability and Reactivity

STABILITY: Stable.
CONDITIONS TO AVOID: None known.
INCOMPATIBILITY: None known.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Incineration will produce smoke, carbon monoxide, carbon dioxide, and oxides of nitrogen.
HAZARDOUS POLYMERIZATION: Will not occur.

11. Toxicological Information

CHRONIC HEALTH HAZARDS:
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."

TOXICOLOGY DATA:

Water	7732-18-5	LC50 rat	4hr	Not available
		LD50 rat	Oral	Not available
Acrylic polymer	TSRN 01368	LC50 rat	4hr	Not available
		LD50 rat	Oral	Not available
Titanium dioxide	13463-67-7	LC50 rat	4hr	>6.82 mg/l
		LD50 rat	Oral	>25 g/kg
Urethane polymer	TSRN 01350	LC50 rat	4hr	Not available
		LD50 rat	Oral	Not available
Silicone dioxide	112926-00-8	LC50 rat	4hr	Not available
		LD50 rat	Oral	Not available
1-methyl-2-pyrrolidone	872-50-4	LC50 rat	4hr	Not available
		LD50 rat	Oral	Not available
2-butoxyethanol	111-76-2	LC50 mouse	7hr	700 ppm
		LD50 rat	oral	1746 mg/kg

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION:
No data available.

13. Disposal Considerations

WASTE DISPOSAL METHOD:
Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

14. Transportation Information

US Ground (DOT):
Not Regulated for Transportation.
Canada (TDG):
Not Regulated for Transportation.
IMO:
Not Regulated for Transportation.

15. Regulatory Information

SARA Section 313: See section 3 for chemicals marked with "X" This chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community-Right-To-Know Act of 1986 and of 40 CFR 372.
California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): Components of this product are on the California Proposition 65 lists.
TSCA:: All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.

16. Other Information

Notice to reader:
The information provided herein was believed by Multicolor Specialties, Inc. ("MSI") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by MSI are subject to MSI's terms and conditions of sale. MSI MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY MSI, except that the product shall conform to MSI's specifications. Nothing contained herein constitutes an offer for the sale of any product.