



Manufacturer of Polyaspartic Polyurea Floor Coatings

MATERIAL SAFETY DATA SHEET

Universal Color Tint

Universal Color Tint

Product Name: Universal Color Tint
Product Number: Universal Color Tint
MSDS #: 02/2011#1
Date Issued: 02/2011
Issued by: Citadel Floor Finishing Systems

For Emergency Assistance involving chemicals call CHEMTREC (800) 424-9300

MANUFACTURED BY:
Citadel Floor Finishing Systems
3001 103rd In NE
Blaine, MN 55449
866-765-4310

MANUFACTURED EXCLUSIVELY FOR CITADEL FLOOR FINISHING SYSTEMS
TRANSPORTATION EMERGENCY • CALL CHEMTREC: (800) 424-9300 • INTERNATIONAL: (703) 527-3887

1. Product and Company Identification

Product Number: Universal Color Tint
Chemical Family: Color Tint

2. Hazards Identification

EMERGENCY OVERVIEW

CAUTION!

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

POTENTIAL HEALTH EFFECTS

Primary Routes of Entry: Skin Contact, Eye Contact, Ingestion, Inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Causes headache, drowsiness or other effects to the central nervous system. Kidney injury may occur.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

INHALATION / ACUTE INHALATION

For Product: Universal Tint

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

SKIN / ACUTE SKIN

For Product: Universal Tint

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

CHRONIC SKIN

For Product: Universal Tint

Prolonged contact can cause reddening, swelling, rash, and in some cases, skin sensitization.

EYE / ACUTE EYE

For Product: Universal Tint

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

INGESTION / ACUTE INGESTION

For Product: Universal Tint

Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention.

MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE

May cause or aggravate dermatitis and asthma.

CARCINOGENICITY

No Carcinogenic substances as defined by IARC, NTP and/or OSHA.

3. Composition/Information on Ingredients

Weight %	Components	CAS-No.
55 - 60	TITANIUM DIOXIDE	13463-67-7
10-15	PROPYLENEGLYCOL MONOMETHYL ETHER ACETATE	108-65-6
1-5	BUTYL ACETATE	123-86-4
1-5	PROPRIETARY INERT	Trade Secret

4. First Aid Measures

EYE CONTACT

Get medical attention, if symptoms develop or persist. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyes wide apart.

SKIN CONTACT

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

INHALATION

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

INGESTION

Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Get medical attention.

NOTES TO PHYSICIAN

Symptomatic and supportive therapy as needed. Following severe exposure medical follow up should be monitored for at least 48 hours.

5. Fire-Fighting Measures

Flash point (Fahrenheit):	108
Flash point (Celsius):	42.22
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information

UNUSUAL FIRE AND EXPLOSION HAZARDS

None known

EXTINGUISHING MEDIA

Carbon dioxide, dry chemical, foam and/or water fog.

FIRE FIGHTING PROCEDURES

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

6. Accidental release measures

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

7. Handling and Storage

STORAGE TEMPERATURE

Minimum: 0 C (32° F)
Maximum: 50 C (122° F)

STORAGE PERIOD

6 months in unopened containers

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

FURTHER INFO ON STORAGE CONDITIONS

Avoid contact with moisture/water. Material can be stored safely at ambient temperatures.

8. Exposure Controls/ Personal Protection

Country specific exposure limits have not been established or are not applicable.

INDUSTRIAL HYGIENE/VENTILATION MEASURES

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

RESPIRATORY PROTECTION

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

HAND PROTECTION

The following protective materials are recommended: Gloves - neoprene, nitrile rubber, butyl rubber. Thin latex disposable gloves should be avoided for repeated or long term use. Protective clothing should be selected and used in accordance with 'Guidelines for the Selection of Chemical Protective Clothing' published by ACGIH.

EYE PROTECTION

Chemical goggles, also wear a face shield if splashing hazard exists.

SKIN AND BODY PROTECTION

Splash goggles. Full suit. Vapor respirator or self-contained breathing apparatus (SCBA). Boots. Gloves. Suggested protective clothing might not be adequate.

9. Physical and chemical properties

Odor:	Normal for this product type.
Physical State:	liquid
pH:	Not determined
Vapor pressure:	9.7744361 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	4.6
Boiling point:	>143 C
Solubility in water:	Not determined
Coefficient of water/oil distribution:	Not determined
Density (lbs per US gallon):	16.5
Specific Gravity:	1.98
Evaporation rate (butyl acetate = 1.0):	1
Flash point (Fahrenheit):	98
Flash point (Celsius):	37
Lower explosive limit (%):	1
Upper explosive limit (%):	13
Autoignition temperature:	Not determined

10. Stability and Reactivity

HAZARDOUS REACTIONS

Hazardous polymerization does not occur.

STABILITY

Stable under normal conditions.

CONDITIONS TO AVOID

Avoid Extreme Heat.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and carbon dioxide. Metal oxide fumes.

HAZARDOUS POLYMERIZATION

None anticipated.

SENSITIVITY TO STATIC DISCHARGE

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. Toxicological Information

TOXICITY DATA FOR UNIVERSAL TINT / TOXICITY NOTE

Ingredient Name	CAS-No.	Approx.Weight %	NIOSH - Selected LD50s and LC50s
TITANIUM DIOXIDE	13463-67-7	55 - 60	> 10000 mg/kg Oral LD50 Rat
PROPYLENEGLYCOL	108-65-6	10 - 15	= 8532 mg/kg Oral LD50 Rat
MONOMETHYL ETHER			> 5000 mg/kg Dermal LD50 Rabbit
ACETATE			
BUTYL ACETATE	123-86-4	1 - 5	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
PROPRIETARY INERT		1 - 5	> 5000 mg/kg Oral LD50 Rat

MUTAGENS/TERATOGENS/CARCINOGENS

Possible cancer hazard. Contains material which may cause cancer based on animal data. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx.Weight %	IARC Group 1- HumanEvidence	ARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data Monograph 47 [1989]
TITANIUM DIOXIDE 13463-67-7	55 - 60			

Ingredient Name CAS-No.	Approx.Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity male rat-negative; female rat-negative; male mice-negative; female mice-negative
TITANIUM DIOXIDE 13463-67-7	55 - 60			

Ingredient Name CAS-No.	Approx.Weight %	OSHA - Hazard Communication Carcinogens Present	OSHA - Hazard Communication Carcinogens	OSHA - Specificall Regulated Carcinogens ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	55 - 60			

12. Ecological Information

No information on ecology is available.

13. Disposal considerations

Disposal should be made in accordance with federal, state and local regulations.

14. Transportation information

SEA TRANSPORT IMDG-CODE

Class	3
UN #	1263
Packing Group	III
EmS	F-E S-E
Proper technical name (Proper shipping name)	Paint Related Material

AIR TRANSPORT ICAO-TI/TA-DGR

Class	3
UN #	1263
Packing Group	III
Proper technical name (Proper shipping name)	Paint Related Material

CFR_INWTR In ther U.S. this material may be classified as combustible liquids. Combustible liuids are not regulated in packages 450 Liters or less.This applies to shipments by road and rail only.

CFR_RAIL In ther U.S. this material may be classified as combustible liquids. Combustible liuids are not regulated in packages 450 Liters or less.This applies to shipments by road and rail only.

CFR_ROAD In ther U.S. this material may be classified as combustible liquids. Combustible liuids are not regulated in packages 450 Liters or less.This applies to shipments by road and rail only.

15. Regulatory Information

INGREDIENT NAME CAS-NO.	APPROX.WEIGHT %	SARA 302 SARA 313 CERCLA RQ IN LBS.
BUTYL ACETATE 123-86-4	1 - 5	5000

SARA 311/312 HAZARD CLASS

ACUTE:	YES
CHRONIC:	YES
FLAMMABILITY:	YES
REACTIVITY:	NO
SUDDEN PRESSURE:	NO

U.S. STATE REGULATIONS

RIGHT TO KNOW

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

PENNSYLVANIA RIGHT TO KNOW

PROPYLENEGLYCOL MONOMETHYL ETHER ACETATE	108-65-6
BUTYL ACETATE	123-86-4
TITANIUM DIOXIDE	13463-67-7
PROPRIETARY INERT	Trade Secret

ADDITIONAL NON-HAZARDOUS MATERIALS

PROPRIETARY INERT	Trade Secret
PROPRIETARY ADDITIVE	Trade Secret
PROPRIETARY RESIN	Trade Secret

RULE 66 STATUS OF PRODUCT

Not photochemically reactive.

INTERNATIONAL REGULATIONS - CHEMICAL INVENTORIES

US TSCA INVENTORY

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

CANADA DOMESTIC SUBSTANCES LIST

All components of this product are listed on the Domestic Substances List.

16. Other Information

HMIS CODES

Health: 2*
Flammability: 3
Reactivity: 1

PPE: X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Contact Person: Product Safety Department
Telephone: 866-765-4310
MSDS number: 02/2011 #1
Version Date: 02/2011

For Additions Information:

Contact: MSDS Coordinator-Universal Tint

During business hours, Center-866-765-4310

NOTICE

CFFS expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose with respect to the product or information provided herein, and shall under not circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refers to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local CFFS sales office.

All information appearing herein is based upon data obtained form the manufacturer and/or recognized technical sources. While the information is believed to be accurate, CFFS makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CFFS control. Therefore, users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes, and they assume all risks of their use, handling, and disposal of the product or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or in any other process.

END OF MSDS
MFG by CFFS
02/2011