

FT550 High Wear VOC Part A

FT550 High Wear VOC is a two part high solids abrasion resistant MCU designed for heavy traffic use. The VOC compliant polyurethane is combined with aluminum oxides and ceramics that result in a durable surface that outlasts other MCU urethanes by as much as 50%. FT550 is available in clear or color, glossy or satin finishes.

I. IDENTIFICATION

Manufacturer Phone: 773.376.7132
Trade Name: FT550 High Wear VOC
Product Type:
DOT Shipping Name:
Emergency Phone:

II. HAZARDOUS INGREDIENTS

INGREDIENTS:	CAS #	WEIGHT %	ACGIH/TLV	OSHA PEL	VAPOR PRESSURE
*XYLENE	1330-20-7	20%-50%	100 p.p.m.	100 p.p.m.	21
ETHYLBENZENE	100-41-4	Not Established	100 p.p.m.	Not Established	Not Established
AROMATIC HYDROCARBON	64742-95-6	5%-20%	50 p.p.m.	50 p.p.m.	9
PM ACETATE	108-65-6	1%-5%	Not Established	Not Established	4
TOLUENE DIISOCYANATE	26471-62-5	<1	.01 p.p.m.	.02 p.p.m.	0
80% 2, 4 TOLUENE DIISOCYANATE	584-84-9	Not known	.005	Not known	Not known
20% 2, 6 TOLUENE DIISOCYANATE	91-08-7	Not known	.005	Not known	Not known
*4, 4' DIPHENYLMETHANE-DIISOCYANATE (this is an unstable chemical)	101-68-8	5%-20%	.005 p.p.m.	.02 p.p.m.	
MODIFIED MDI (manufacturer of above item furnishes TLV)	no CAS # or	5%-20%	Undetermined	Undetermined	

In a National Toxicology Program (NTP) study, this material was carcinogenic when given orally to rats and mice at maximum tolerated doses. This material was not carcinogenic to rats in a two year inhalation study. Based on the results of the ORAL study, this material was included in the NTP annual report on carcinogens.

* Section 313: This ingredient 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. Do not apply this product by spraying.

III. PHYSICAL DATA

Boiling Range: 243°F-484°F
Vapor Density: Heavier than air.
Liquid Density: Heavier than water.
Evaporation Rate: 0.56 x n-Butyl Acetate
% Volatile by Volume: 47.0%
Weight per Gallon: 9.1 lbs.
Appearance and Odor: Neutral.

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point TCC/PM: 93°F
Lower Explosive Limit: 1.1%

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Upper Explosive Limit: NA
Extinguishing Media: Foam, carbon dioxide or dry chemical. If water is used, use very large quantities. The reaction between water and hot isocyanate may be vigorous.

Special Firefighting Procedures: 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. (See VI)

UNUSUAL FIRE AND EXPLOSION HAZARDS: Water pressure may spread a flammable liquid fire. Sealed containers may explode if overheated. Do not reseal contaminated containers as pressure buildup may rupture them.

V. HEALTH AND SAFETY

Threshold Limit Value: WARNING: Care must be taken not to exceed the exposure limit for the lowest TLV shown in section II. When in doubt, wear an approved respirator and order air sampling tests. (See section VIII.)

Effects of Overexposure:

Eyes: Severe eye irritation possibly resulting in permanent damage.
Skin: May cause drying and sensitization after repeated contact.
Inhalation: May cause acute toxicity resulting in headache, dizziness, nausea and loss of consciousness. Can cause irritation to the mucous membranes and will cause irritation to the respiratory tract (dry throat, cough, shortness of breath, chest tightness) resulting in sinusitis, bronchitis and asthma like symptoms. MDI vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat and reduced lung function. Exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema. These effects are usually reversible.

Ingestion: Vomiting.

Chronic Effects: There are reports that chronic overexposures may result in permanent decreases in lung function.

Emergency and First Aid Procedures:

Eyes: Flush with plenty of clean lukewarm low pressure water for fifteen minutes, occasionally lifting eyelids open. Get medical attention.

Skin: Flush with water while removing contaminated clothing and shoes. Follow by washing with soap and water. Do not reuse contaminated clothing or shoes. If irritation persists, get medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. Keep victim warm and comfortable. Never give an unconscious person liquids.

Ingestion: If swallowed, call physician immediately. Only induce vomiting on instructions of physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Never give anything by mouth to unconscious person.

VI. REACTIVITY DATA

Conditions to Avoid: Avoid heat, sparks, open flames and incompatibilities above high temperature, strong oxidizing conditions, extended contact with air/oxygen.

Hazardous Decomposition

Products: Incomplete combustion for products like this may generate highly poisonous carbon monoxide and other toxic gases.

Hazardous Polymerization: Will not occur.

Incompatibility: May be incompatible with oxidizing agents and strong alkalines. This product with any materials containing active hydrocarbons such as water, alcohol, ammonia, amines, alkalines and acids. Some reactions may be violent.

Stability: Stable.

VII. SPILL OR LEAK PROCEDURES

Warning: Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Soak up with an absorbent and place in non-leaking containers. Seal tightly for proper disposal. Wear skin, eye and respiratory protection during cleanup. Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area. Prepare a decontamination solution of 0.2%-0.5% liquid detergent and 3%-8% concentrated ammonium hydroxide in water (5%-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's MSDS. All operations should be performed by trained personnel familiar with the hazards of the chemicals used. Treat the spill area with the decontamination solution, using about ten parts of solution for each part of the spill, and allow it to react for at least ten minutes. Carbon dioxide will evolve, leaving insoluble polyureas.

Waste Disposal Method: Disposal must be in accordance with current local, State and Federal regulation. Contact an approved disposal facility. Slowly stir the isocyanate waste into the decontamination solution described above using ten parts of the solution for each part of the isocyanate. Let stand for 48 hours, allowing the evolved carbon dioxide to vent away. Neutralize the waste. Neither the solid nor the liquid portion is a hazardous waste under RCRA, 40 CFR 261. Drums must be decontaminated in properly ventilated areas by personnel protected from the inhalation of isocyanate vapors. Spray or pour five to fifteen liters of decontaminating solution into the drum, making sure the walls are well rinsed. Leave the drum soaking unsealed for 48 hours. Pour out the decontaminating solution and triple rinse the empty container. Puncture or otherwise destroy the rinsed container before disposal.

VIII. SAFE HANDLING AND USE INFORMATION

Respiratory Protection: Properly fitted NIOSH/MSHA approved respirators shall be used during application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Because this material contains aromatic isocyanates, a positive pressure, pressure supplied air OSHA/MSHA approved respirator must be worn if airborne concentrations are

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unknown or if the airborne concentrations exceed the applicable limits. Individuals having a history or respiratory illness or asthmatic conditions should be precluded from exposure. Warning do not spray this material to apply. Effective engineering controls should be used whenever possible.

Ventilation:

Protective Clothing: Use rubber gloves. Wear approved safety goggles and/or face shield. Have eye bath and safety shower available.

IX. SPECIAL PROCEDURES

Precautions to be Taken in Handling and Storing: Treat as a hazardous, flammable material. Know applicable DOT regulations before attempting to transport this material. **WARNING:** Hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures decrease with increasing vapor volume and vapor/air contact time and are influenced by pressure changes. Ignition may occur at typical elevated temperature process conditions, especially in process operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs. Any proposed use of this product in elevated temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

SAFETY STATEMENT

The information presented is believed to be accurate, but is not warranted to be whether originating from manufacturer or not. Recipients are advised to confirm, in advance of need, that the information is current, applicable, and relative to their individual circumstance.

FT550 High Wear VOC Part B

Material Safety Data Sheet

I. IDENTIFICATION

Manufacturer Phone: 708.520.4455
Trade Name: FT550 High Wear VOC Part B
Product Type: Aluminum oxide
DOT Shipping Name:
Emergency Phone:

II. HAZARDOUS INGREDIENTS

INGREDIENT:	CAS #	WEIGHT %	OSHA PEL
ALUMINUM OXIDE AL2O3 (non-fibrous)	1344-28-1	99.5%	15 mg/m ³

III. PHYSICAL DATA

Boiling Range: NA
Vapor Density: NA
Vapor Pressure: NA
Specific Gravity: 3.95
Solubility in Water: Negligible
Evaporation Rate: NA
Appearance and Odor: Granular, white and odorless.

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point TCC/PM: NA
Lower Explosive Limit: NA
Upper Explosive Limit: NA
Extinguishing Media: NA
Special Firefighting Procedures: Will not burn.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

V. HEALTH AND SAFETY

Threshold Limit Value: Not required for substance.
Effects of Overexposure:
Eyes: NA
Skin: NA
Inhalation: Choking and eye irritation if work area is extremely dusty.
Ingestion: NA
Chronic Effects: NA
Medical Conditions Generally Aggravated by Exposure: None.
Emergency and First Aid Procedures:
Eyes: NA
Skin: NA
Inhalation: Remove to fresh air.
Ingestion: NA

VI. REACTIVITY DATA

Conditions to Avoid: NA
Hazardous Decomposition Products: NA
Hazardous Polymerization: NA
Incompatibility: NA
Stability: Stable.

VII. SPILL OR LEAK PROCEDURES

Clean up by use of recommended dustless method (vacuum or filter) or sweep up avoiding excessive dusting.

VIII. SAFE HANDLING AND USE INFORMATION

Respiratory Protection: Approved nuisance dust respirator (NIOSH TC-21C-132) e.g. 3M #8710.
Ventilation: Vented hoods—follow OSHA standards. Dust collection at source, fans or scrubbers.
Protective Clothing: Gloves, safety glasses or goggles.

IX. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Adequate ventilation and dust collection.
Other Precautions: Practice good housekeeping.

SAFETY STATEMENT

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