Manufactured by: **TENNANT** 701 North Lilac Drive P.O. Box 1452 Minneapolis, MN 55440-1452

MATERIAL SAFETY DATA SHEET

Eco-UVS™ - Part A

InstaCure™ Solution

PREPARATION INFO:

EMERGENCY PHONE NUMBERS:

CHEMTREC: (800) 424-9300 (24 hrs) CANADA: CANUTEC (613) 996-6666 (24 hrs) District of Columbia: (202) 483-7616 (24 hrs) MSDS Requests: (800) 553-8033

By: Kevin Hobbie (763) 540-1471 (days)

(612) 834-0118 (mobile)

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

ssue Date:	June 28, 2011	HAZARD RATING		HMIS	D #. #	NFPA	HMIS	4 = Extreme 2 = Moderate	3 = High 1 = Slight	0 = Insignificant COR = Corrosive
Supersedes:	September 18, 2008	Health	•	1	Reactivity	1	1	Z moderate		X = Ask supervisor for guidance
rinted:	7/11/2011	Fire	1	1	Special	0	Χ			
				***** I. ID	ENTIFICAT	ION ****	k 			
RODUCT	NAME: Eco-UVST	™ - Part A			US DE	PT OF T	RANSPO	ORTATION (GROUND)	
nstaCure™	⁴ Solution				UN#:	None A	llocated	PACK	AGING GF	ROUP: Not Applicable
PART NUM	MBER: 9000436				HAZA	RD CLAS	SSIFICA	TION:	Non Reg	ulated
		nking Doein				ING NAI		Not Applicab	le	
	FAMILY: Crossli	•			SHIFF	INO INA	VII.	110t/ (ppiloab		
MATERIAL	. USE: Light Polyr	nerizable Floor Coa								
				***** II. P	HYSICAL D	ATA ****	** 			
BOILING F	POINT:	Not Available	/ Not Av	ailable	FRI	EZE PO	INT:	Not A	Available	/ Not Available
DENSITY:		1.2 kg/L			% \	OLATIL	E:	0 by	wt	
SOLUBILI"	TY IN WATER:	Not Soluble			VAI	POR PRI	ESSURE	: Not A	Available	mm Hg at 20 °C.
ODOR TH	RESHOLD:	Not Available			pH:		Not	Available		
PHYSICAL	FORM:	Liquid			VAI	OR DE	NSITY:	Heav	/ier	THAN AIR
		•	an lika		CO	EFFICIE	NT WAT	ER/OIL DIST	RIBUTION	\: Not Available
APPEARA	NCE AND ODOR:	Clear/Pungent/So	ap-line							
	ANCE AND ODOR: ATION RATE:	Clear/Pungent/So Slower		JTYL ACETAT		C g/L (lb			(80.0)	
EVAPORA		J		JTYL ACETA	re VO	C g/L (lb ATIC DIS	/gal):	10		

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous Ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (HZ after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR. LC50

CHEMICAL_	CAS#	OSHA PEL <u>% W</u> ppm	ACGIH TLV TWA ppm	ACGIH TLV STEL ppm LD50	<u>LC50</u> <u>INHALATION</u>
Polymerization Modifier	*	90-100 Not Available	Not Available	Not Available >50 mg/kg (oral rat)	2.75 mg/L (1 hr on rat by inhalation

*Proprietary - Listed in TSCA C.S. Inventory

SARA Title III Section 313 Information:

Components present in this product at a level which could require reporting under this statute are:

None

California Proposition 65 Information:

This product contains the following chemicals designated as cancer and/or reproductive hazards under California Proposition 65.

None

***** IV. FIRE AND EXPLOSIVE HAZARD DATA *****

FLAMMABLE:

Nο

FLASH POINT: Not Available / Not Available Setaflash

% UEL: Not Available AUTOIGNITION TEMPERATURE: Not Available / Not Available FLAMMABLE LIMITS: % LEL: Not Available

EXTINGUISHING MEDIA: Use National Fire Protection Association (N.F.P.A.) Class B extinguishers (carbon dioxide, dry chemical or foam).

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray to keep fire-exposed containers cool. Wear self-contained breathing apparatus; wear goggles if eye protection is not provided.

UNUSUAL FIRE EXPLOSION HAZARD:

Keep containers tightly closed. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.

***** V. REACTIVITY DATA *****

STABILITY:

Stable

HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur): May

CONDITIONS TO AVOID:

Excessive or prolonged heat, light.

INCOMPATIBILITY (materials to avoid):

None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

***** VI. HEALTH HAZARD DATA *****

EFFECTS OF OVEREXPOSURE:

THRESHOLD LIMIT VALUE - See Section III for individual ingredients.

PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact

SKIN CONTACT/ABSORPTION: Contains materials which may cause skin irritation.

Contains materials which may cause eye irritation. During application/use of this product, contact lenses should NOT be worn.

INGESTION (Swallowing):

Small amounts, if swallowed, are not expected to cause injury; avoid swallowing.

INHALATION (Breathing):

Under normal product use, inhalation exposure should be minimal. Contains materials which have the potential to cause headaches, nausea, dizziness and respiratory tract irritation upon inhalation of vapors heated to high temperatures.

SUPPLEMENTAL HEALTH INFORMATION:

Ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) lists.

***** VII. EMERGENCY AND FIRST AID PROCEDURES *****

SKIN CONTACT:

IMMEDIATELY wash exposed areas with soap and water for 15 minutes. Seek medical attention if irritation develops and persists.

Wash clothing before reuse.

EYE CONTACT:

Flush immediately with water for 15 minutes; CALL A PHYSICIAN.

INGESTION (Swallowing): If appreciable quantities are swallowed, seek medical attention. DO NOT induce vomiting.

INHALATION (Breathing): Remove to fresh air. If breathing difficulty persists or occurs later, consult a physician.

***** VIII. PREVENTIVE MEASURES *****

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.

WASTE DISPOSAL METHOD:

Dispose of all excess material, packaging and other waste in accordance with federal, state and local regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION and VENTILATION:

Use with adequate ventilation. Where ventilation is inadequate, wear a chemical respirator approved for organic vapors. Use NIOSH 42 CFR 84 approved respirator.

Local exhaust recommended to control employee exposure.

PROTECTIVE GLOVES (specify type):

EYE PROTECTION (specify type)

Impervious gloves; i.e., rubber

Chemical splash goggles Protective clothing, such as uniforms or coveralls and protective gloves. Launder clothing when soiled.

SKIN PROTECTION: SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:

OTHER PRECAUTIONS:

Store inside in a cool (below 100°F or 37.5°C), dry place. KEEP FROM FREEZING. Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid

free fall of liquid in excess of a few inches.

Manufactured by: **TENNANT** 701 North Lilac Drive P.O. Box 1452 Minneapolis, MN 55440-1452

EMERGENCY PHONE NUMBERS:

CHEMTREC: (800) 424-9300 (24 hrs)

MATERIAL SAFETY DATA SHEET

Eco-UVS™ - Part B

InstaCure™ Solution

PREPARATION INFO:

District of Columbia: (202) 483-7616 (24 hrs) MSDS Requests: (800) 553-8033

By: Kevin Hobbie (763) 540-1471 (days)

(612) 834-0118 (mobile)

CANADA: CANUTÉC (613) 996-6666 (24 hrs) This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

ssue Date: Supersedes: Printed:	June 28, 2011 September 18, 2008 7/11/2011	HAZARD RATING Health Fire	1	HMIS 1 1	Reactivity Special	NFPA 1 0	HMIS 1 x	4 = Extreme 2 = Moderate	3 = High 1 = Slight	0 = Insignificant COR = Corrosive X = Ask supervisor for guidance.
				***** I, IDE	NTIFICAT	TION ****	*			
PRODUCT InstaCure™		M - Part B			US DE UN#:	PT OF T	RANSP Aliocated SSIFICA	TION:	AGING GF Non Regi	ROUP: Not Applicable
CHEMICAI	FAMILY: Crossli	nking Resin			SHIPF	ING NAI	ME:	Not Applicab	le	
		merizable Floor Coa	ting							
				***** II. PH	YSICAL D	OATA ***	** 			
BOILING F		Not Available 1.2 kg/L Not Soluble	/ Not Av	vailable	% \	EEZE PO VOLATIL POR PR	.E:	0 by	Available wt Available	/ Not Available
ODOR TH PHYSICAL APPEARA EVAPORA	RESHOLD:	Not Available Liquid	oap-like THAN N-E	BUTYL ACETATI	CC ■ VC	POR DE	NSITY: :NT WA ⁻ o/gal):			THAN AIR N: Not Available
				***** ,	NGREDIE	NTS ****	*			

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (HZD) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR.

CHEMICAL	CAS#	<u>% W</u>	OSHA PEL	ACGIH TLV TWA ppm	ACGIH TLV STEL ppm LD50	<u>LC50</u> <u>INHALATION</u>
Crosslinking Agent	*	80-90	Not Available	Not Available	Not Available 866 mg/kg (oral m	ouse) 238 ppm (96 hr orange-r killifish)
Phosphine Oxide	*	5-10	Not Available	Not Available	Not Available >5,000 mg/kg (ora	l rat) Not Available
Aryl Ketone	*	5-10	Not Available	Not Available	Not Available Not Available	Not Available
Flow Additive (HZD)	*	1-5	10 mg/m³	10 mg/m³	Not Available 0.89 g/kg (oral rat)	Not Available
Proprietary Additive	*	1-5	Not Available	Not Available	Not Available Not Available	Not Available
Xylene (mixed)	1330-20-7	<1	100	100	150 4300 mg/kg (oral i	rat) 5000 ppm/4hr (rat)

*Proprietary - Listed in TSCA C.S. Inventory

SARA Title III Section 313 Information: Xylene - CAS #1330-20-7 0.72% by wt. Components present in this product at a level which could require reporting under this statute are:

California Proposition 65 Information:

This product contains the following chemicals designated as cancer and/or reproductive hazards under California Proposition 65.

None

***** IV. FIRE AND EXPLOSIVE HAZARD DATA *****

FLAMMABLE:

No

FLASH POINT: Not Available / Not Available Setaflash

% UEL: Not Available AUTOIGNITION TEMPERATURE: Not Available / Not Available % LEL: Not Available FLAMMABLE LIMITS:

EXTINGUISHING MEDIA: Use National Fire Protection Association (N.F.P.A.) Class B extinguishers (carbon dioxide, dry chemical or foam).

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray to keep fire-exposed containers cool. Wear self-contained breathing apparatus; wear goggles if eye protection is not provided.

UNUSUAL FIRE EXPLOSION HAZARD:

Keep containers tightly closed. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.

***** V. REACTIVITY DATA *****

STABILITY:

HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur): May

CONDITIONS TO AVOID: INCOMPATIBILITY (materials to avoid):

Excessive or prolonged heat, light. None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

***** VI. HEALTH HAZARD DATA *****

EFFECTS OF OVEREXPOSURE:

THRESHOLD LIMIT VALUE - See Section III for individual ingredients.

PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact

SKIN CONTACT/ABSORPTION: Contains materials which may cause skin irritation.

Contains materials which may cause eye irritation. During application/use of this product, contact lenses should NOT be worn.

INGESTION (Swallowing):

Small amounts, if swallowed, are not expected to cause injury; avoid swallowing.

INHALATION (Breathing):

Under normal product use, inhalation exposure should be minimal. Contains materials which have the potential to cause headaches, nausea, dizziness and respiratory tract irritation upon inhalation of vapors heated to high temperatures.

SUPPLEMENTAL HEALTH INFORMATION:

Ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) lists.

***** VII. EMERGENCY AND FIRST AID PROCEDURES *****

SKIN CONTACT:

IMMEDIATELY wash exposed areas with soap and water for 15 minutes. Seek medical attention if irritation develops and persists.

Wash clothing before reuse.

EYE CONTACT:

Flush immediately with water for 15 minutes; CALL A PHYSICIAN.

INGESTION (Swallowing): If appreciable quantities are swallowed, seek medical attention. DO NOT induce vomiting.

INHALATION (Breathing): Remove to fresh air. If breathing difficulty persists or occurs later, consult a physician.

***** VIII. PREVENTIVE MEASURES *****

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.

WASTE DISPOSAL METHOD:

Dispose of all excess material, packaging and other waste in accordance with federal, state and local regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION and VENTILATION:

Use with adequate ventilation. Where ventilation is inadequate, wear a chemical respirator approved for organic vapors. Use NIOSH 42 CFR 84 approved respirator.

Local exhaust recommended to control employee exposure.

PROTECTIVE GLOVES (specify type):

EYE PROTECTION (specify type):

Impervious gloves; i.e., rubber

Chemical splash goggles

SKIN PROTECTION:

Protective clothing, such as uniforms or coveralls and protective gloves. Launder clothing when soiled

SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:

Store inside in a cool (below 100°F or 37.5°C), dry place. KEEP FROM FREEZING.

OTHER PRECAUTIONS:

Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid

free fall of liquid in excess of a few inches.

TENNANT 701 North Lilac Drive P.O. Box 1452 Minneapolis, MN 55440-1452

MATERIAL SAFETY DATA SHEET

WearGuard™-HTS Part B / Eco-HTS™ Part C / Eco-Shield™ Part C / Eco-UVS™ Part C



Satin Urethane Topcoat / High Wear Epoxy / InstaCure™ Solution

EMERGENCY PHONE NUMBERS:

CHEMTREC: (800) 424-9300 (24 hrs) CANADA: CANUTEC (613) 996-6666 (24 hrs) District of Columbia: (202) 483-7616 (24 hrs) MSDS Requests: (800) 553-8033

By: Kevin Hobbie

PREPARATION INFO:

(763) 540-1471 (days) (612) 834-0118 (mobile)

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ssue Date:	July 2, 200	8	HAZARD RATI	NG I	NFPA	HMIS		NFPA	HMIS	4 = Extrem	•	0 = Insignificant
upersedes:	July 19, 20	05		alth	0	0	Reactivity	0	0	2 = Modera	ate 1 = Slight	COR = Corrosive X = Ask supervisor for guidance
rinted:	7/2/2008			Fire	0	0	Special	0	е			, , , tok oupon too , to games a
						***** I. ID	ENTIFICA	TION ***	k**			
PRODUCT	NAME:	WearGua Eco-Shiel	rd™-HTS Part B d™ Part C / Eco-	/ Eco- UVS™	HTS™ M Part C	Part C /	US D	EPT OF	TRANSP	ORTATIO	N (GROUND)	
Satin Urethane Topcoat / High Wear Epoxy / InstaCure™ Solution						UN#:	None	Allocated	PAG	CKAGING GR	ROUP: Not Applicable	
PART NUN		370605, 3 9000438	70608, 370258,	37810	3, 3780	99,	HAZA	ARD CLA	ASSIFICA		Non Regu	ulated
CHEMICAL	FAMILY	: Alumin	um Oxide				SHIP	PING NA	ME:	Not Applic	cable	
MATERIAL	.USE: (Compone	nt in Floor Coatin	g for (Concrete	Э						
					,	***** II. P	HYSICAL	DATA **	*** 			
BOILING F	POINT		Not Available	1	Not Ava	ilable	FF	REEZE P	OINT:	N	lot Available	/ Not Available
DENSITY:			4.0 kg/L				%	VOLATI	LE:	0	by wt	
SOLUBILI	TY IN WA	TER:	Not Soluble				V	APOR PE	RESSURI	E: N	ot Available	mm Hg at 20 °C.
ODOR TH PHYSICAL APPEAR	FORM:		Not Available Solid Granular - Wh				C	APOR DE OEFFICI	ENT WA	N T er/oil d	lot Available lot Available ISTRIBUTION	THAN AIR N: Not Available
EVAPOR	ATION RA	TE:	Not Applicable	, TI	HAN N-BU	TYL ACETAT		OC g/L (I			0 (0.00)	
MECHANI	CAL IMP	ACT:	Not Available				S.	TATIC D	ISCHAR	GE: N	lot Available	
						***** .	INGREDI	ENTS ***	***			- II - MI MO are Identified by (UZD)
All components	are included	in the EPA To	xic Substances Control	Act (TSC	CA) Chemic	cal Substance	e Inventory. Ha the CPR (Contr	azardous ing rolled Produc	redients, defir ets Regulation	ned as Controllens) and the MSI	ed Products by Cana OS contains all of the	adian WHMIS, are identified by (HZD) e information required by the CPR.
CHEMICAI		product rias		% W	OSH/		ACGII TWA	1 TLV	ACG	IH TLV	D50	<u>LC50</u> INHALATION

CHEMICAL	CAS#	<u>% W</u>	ppm	TWA ppm	STEL ppm	<u>LD50</u>	INHALATION
Nonfibrous Aluminum Oxide (HZD)	1344-28-1	100	10 mg/m³, 5 mg/m³ (respirable dust)	10 mg/m³	Not Available	Not Available	Not Available

SARA Title III Section 313 Information:

Components present in this product at a level which could require reporting under this statute are:

None

California Proposition 65 Information:

This product contains the following chemicals designated as cancer and/or reproductive hazards under California Proposition 65.

None

***** IV. FIRE AND EXPLOSIVE HAZARD DATA *****

FLAMMABLE:

No

FLASH POINT: Not Available / Not Available Setaflash

FLAMMABLE LIMITS:

% LEL: Not Available

% UEL: Not Available AUTOIGNITION TEMPERATURE Not Available / Not Available

EXTINGUISHING MEDIA: Will not burn. May be used to extinguish fires.

SPECIAL FIRE FIGHTING PROCEDURES:

None. Will not burn.

UNUSUAL FIRE _EXPLOSION HAZARD:

None known.

***** V. REACTIVITY DATA *****

STABILITY:

Stable

HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur): Will Not

CONDITIONS TO AVOID:

None.

INCOMPATIBILITY (materials to avoid):

None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

***** VI. HEALTH HAZARD DATA *****

EFFECTS OF OVEREXPOSURE:

THRESHOLD LIMIT VALUE - See Section III for individual ingredients.

PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact

SKIN CONTACT/ABSORPTION: Not absorbed through skin. May cause abrasions.

EYE CONTACT:

Contains materials which may cause eye irritation and abrasion. During application of this product, contact lenses should NOT be

worn.

INGESTION (Swallowing):

No known effects for normal, incidental ingestion.

INHALATION (Breathing):

May cause coughing or shortness of breath. Chronically may affect breathing capacity.

SUPPLEMENTAL HEALTH INFORMATION:

All ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP).

***** VII. EMERGENCY AND FIRST AID PROCEDURES *****

SKIN CONTACT: Wash thoroughly with soap and water. Seek medical attention if irritation persists.

EYE CONTACT: Flush immediately with water for 15 minutes. Obtain medical attention if discomfort persists.

INGESTION (Swallowing): Dilute with two glasses of water. CALL A PHYSICIAN OR POISON CONTROL CENTER.

INHALATION (Breathing): Remove to fresh air. If breathing difficulty persists or occurs later, consult a physician.

***** VIII. PREVENTIVE MEASURES *****

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Sweep or scoop up and put in disposal container. Collect using dustless methods (HEPA vacuum or flush with water) to minimize generation of airborne respirable dust.

WASTE DISPOSAL METHOD:

Dispose of in accordance with federal, state and local regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION and VENTILATION:

Avoid inhalation of dust by wearing a single use dust mask or respirator with cartridge (NIOSH TC 21C-132).

Local exhaust, vented hoods with dust collection.

PROTECTIVE GLOVES (specify type):

EYE PROTECTION (specify type)

Chemical splash goggles

SKIN PROTECTION:

Impervious gloves; i.e., rubber

SPECIAL PRECAUTIONS:

Impervious gloves; i.e., rubber

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:

Store inside in a cool (below 100°F or 37.5°C), dry place.

OTHER PRECAUTIONS:

Do not take internally.