	TETY DATA SHEET tectosil® ANTIGRAFF	ITI					
Spe	erial no. cification <b>116768</b> er Number	Version Revision date Print Date Page	6.2 / US 05/01/2015 09/16/2015 1 / 14	INDUSTRIES			
	Identification						
.1.	Product identifier						
	Trade name	Protectosil® ANTIGRAF	ITI				
	Chemical Name	PROTECTOSIL® antigra	ffiti				
.2.	Recommended use of	the chemical and restriction	nsonuse				
	Relevant applications identified	For industrial use					
.3.	Details of the supplier	of the safety data sheet					
	Company	Evonik Corporation USA 299 Jefferson Road Parsippany,NJ 07054-06 USA	377				
	Telephone	973-929-8000					
	Telefax	973-929-8040					
	Email address	Product-Regulatory-Serv	ices@Evonik.com				
.4.	24 HOUR EMERGENCY TELEPHONE NUMBERS:						
	CHEMTREC - US & CANADA:	800-424-9300					
	CHEMTREC MEXICO:	01-800-681-9531					
	CHEMTREC INTERNATIONAL:	+1 703-527-3887 <b>(collec</b>	t calls accepted)				
	Product Regulatory Services	: 973-929-8060					
<u>2.</u>	Hazards identification						
2.1.	Classification of the su Classification according to	I <b>b stance or mixture</b> Regulation 29CFR 1910.1200					
	Remarks No	ot a hazardous substance or mix	ure.				
2.2.	Label elements						
	Statutory basis Remarks	Classification according to F Not a hazardous substance or	egulation 29CFR 1910 mixture.	0.1200			
2.3.	<b>Other hazards</b> None known.						

# 3. Composition/information on ingredients

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<b>Chemical nature</b> Preparation on the base: Organofunctional silane systen	1		

• Ethanol >= 1% - < 5% 64-17-5 CAS-No. Flammable liquids Category 2 • Methanol >= 0.1% - < 1% CAS-No. 67-56-1 Flammable liquids Category 2 Acute to xicity (Oral) Category 3 Acute to xicity (Inhalation) Category 3 Acute to xicity (Dermal) Category 3 Specific target organ toxicity - single exposure Category 1

#### Other information

and water

This product contains a component that is subject to a TSCA Significant New Use Rule (SNUR). The limitations on the use of this product are that the product may only be used in anti-graffiti systems and the product may not be used in a way that creates a mist, aerosol, or other respirable form of the product. The product may not be sprayed and should be applied to surfaces via brush or roller. If a product containing the regulated component is distributed further it is required that the distributor ensure that these limitations are communicated to downstream users.

#### 4. First aid measures

#### 4.1. Description of first aid measures

#### Inhalation

If aerosol or mists are inhaled, take affected persons out into the fresh air. In case of persistent discomfort or other symptoms, consult a physician immediately.

#### Skin contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

#### Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

#### Ingestion

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed

#### Symptom s

None known

**4.3.** Indication of any immediate medical attention and special treatment needed After absorbing large amounts of substance: administration of activated charcoal. Acceleration of gastrointestinal passage

#### 5. Fire-fighting measures

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## 5.1. Extinguishing media

Suitable extinguishing media:Use water spray or fog, foam, dry chemical or CO2.Unsuitable extinguishing media:None known.

# 5.2. Special hazards arising from the substance or mixture Standard procedure for chemical fires.

## 5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Containers can build up pressure if exposed to heat (fire). Cool with water spray. As in any fire, wear selfcontained, pressure-demand breathing apparatus (MSHA-NIOSH approved or equivalent) and full protective gear.

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

## 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

## 6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up Ventilate area. Absorb spill with inert material and place in a chemical waste container.

## Additional advice

Remove sources of ignition and ventilate area.

## 7. Handling and storage

## 7.1. Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling.

## 7.2. Conditions for safe storage, including any incompatibilities

## Advice on protection against fire and explosion

Take precautionary measures against static charges, keep away from sources of ignition.

## Storage

Keep containers tightly closed in a cool, well-ventilated place.

## **Further information**

Keep tightly sealed in original packing. Protect from frost.

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## 8. Exposure controls/personal protection

## 8.1. Control parameters

<ul> <li>Methanol</li> </ul>		
CAS-No.	67-56-1	
Control parameters	200 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	250 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters		Skin designation:(ACGIH)
	Can be absorbed through the skin.	
Control parameters	200 ppm 260 mg/m3	Permissible exposure limit:(OSHAZ1)
Control parameters	200 ppm	Time Weighted Average (TWA) Permissible
	260 mg/m3	Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Ceiling Limit Value:(US CA OEL)
Control parameters	250 ppm	Short Term Exposure Limit (STEL):(US CA
	325 mg/m3	OEL)
Control parameters		Skin designation:(US CA OEL)
	Can be absorbed through the skin.	
Control parameters	200 ppm	Time Weighted Average (TWA):(TN OEL)
-	260 mg/m3	
Control parameters	250 ppm	Short Term Exposure Limit (STEL):(TN OEL)
O sustail as a sustained to us	325 mg/m3	
Control parameters	Can be absorbed through the skin.	Skin designation:(TN OEL)
	Can be absorbed intoligh the skin.	
<ul> <li>Ethanol</li> </ul>		
CAS-No.	64-17-5	
Control parameters	1000 ppm	Permissible exposure limit:(OSHAZ1)
	1900 mg/m3	
Control parameters	1000 ppm	Time Weighted Average (TWA) Permissible
Control no rom ators	1900 mg/m3	Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters	1000 ppm	Time Weighted Average (TWA):(TN OEL)
	1900 mg/m3	

## 8.2. Exposure controls

## Engineering measures

Provide for good ventilation if vapors/aerosols are formed.

## Personal protective equipment

## **Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

## Hand protection

Glove materialfor example, butyl-rubberMaterial thickness0.5 mmBreak through time>= 480 minGlove materialfor example, Fluorinated rubber (Viton)Material thickness0.4 mm

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## Break through time >= 480 min

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use. Selection of protective gloves to meet the requirements of specific workplaces. Suitability for specific workplaces should be clarified with protective glove manufacturers. Use impermeable gloves.

#### Eye protection

Use chemical splash goggles or face shield.

#### Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

physical state Colour	liquid yellowish					
Form Odour	orange slightly turbid liquid almost odorless					
Odour Threshold	not determined					
рН	ca. 4	(1000 g/l) (20 °C)				
Melting point/range	-1 °C Method:	ISO 3841				
Boiling point/range	97 °C Method:	(1013 hPa) ASTM D-1120				
Flash point	> 95 °C Method:	DIN EN ISO 2719 (Pensky-Martens, Closed Cup)				
Evaporation rate	not determi	ned				
Flammability (solid, gas)	no data ava	ailable				
Lower explosion limit	not determined					
Upper explosion limit	not determined					
Vapour pressure	23.4 hPa (20 °C) Water					
Relative vapour density	no data ava	ailable				

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	Density	ca. 1.06 g/cm3 Method: DIN 51757	(20 °C)	
	Water solubility	miscible		
	Partition coefficient: n- octanol/water	not determined		
	Autoignition temperature	Not determined.		
	Thermal decomposition	not determined		
	Viscosity, dynamic	ca. 1.6 mPa.s	(20 °C)	
9.2.	Other information			
	Explosiveness	no data available		
	Surface tension	30.4 mN/m (20 °C) Method: OECD 115		
		% VOC (gm/l)	0	
	Other information	Vapors can form explosiv	ve mixtures with air.	
10.	Stability and reactivity			
10.1.	Reactivity No dangerous reaction ki	nown under conditions of 1	normal use.	
10.2.	Chemical stability Stable under recommend	led storage conditions.		
10.3.	Possibility of hazardou Possibility of hazardous reactions	s reactions No dangerous reactions k	known.	
10.4.	Conditions to avoid			
10.5.	Incompatible materials None known			
10.6.	<b>Hazardous decomposit</b> None known	ion products		
	Stable under normal cone Product will not undergo	ditions. hazardous polymerization		
1	Toxicological informatio	n		
1.1. I	Information on toxicolog	ical effects		
	Acute oral toxicity	LD50 Rat: > 2000 mg/ Method: OECD Assessment: The su	kg 423 bstance or mixture has	

Acute inhalation toxicity LC50 Rat: > 5.5 mg/l / 4 h / dust/mist

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		ECD Test Guideline 403 he substance or mixture has	s no acute inhalation toxicity	
Acute der mal toxicity	No data available			
Skin irritation	Rabbit No skin irritation Method: O	ECD Test Guideline 404		
Eye irritation	Rabbit No eye irritation Method: O	ECD Test Guideline 405		
Sensitization		nan test) Guinea pig: Does ECD Test Guideline 406	not cause skin sensitisation	
Repeated dose toxicity	inhalative Rat Testing period: No toxicological et	90 d ffects relevant to classificati	on	
Assessment of STOT single exposure	Assessment TI organ toxicant, sir		not classified as specific targ	
Assessment of STOT repeat exposure	Assessment: TI organ toxicant, rep		not classified as specific targ	
Risk of aspiration toxicity	No evidence of aspiration toxicity			
Gentoxicity in vitro	Ames test Salmonella typhimurium no evidence of mutagenic effects Method: OECD TG 471			
Carcinogenicity	No evidence that of	cancer may be caused.		
Toxicity to reproduction	No data available			
Toxicological information	on components			
Methanol Acute oral toxicity	LD50 Rat: 2963 n (literature value)	ng/kg		
	Acute toxicity estin Method: E:	mate:100 mg/kg xpert judgement		
Acute inhalation toxicity		mate:3 mg/l / vapour xpert judgement		
Acute dermal toxicity	Acute toxicity estin Method: E:	mate: 300 mg/kg xpert judgement		
Skin irritation	Rabbit No skin irritation			

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Eye irritation		Rabbit No eye irritatic Method:	on OECD Test Guideline 405	5
Sensitization		Maximization 1 Method:	test Guinea pig: Does not ca OECD Test Guideline 406	
Repeated dos	e toxicity	Oral Monkey	2340 mg/kg	
Assessment o exposure	-	Assessment	Causes damage to organ	S.
Assessmento exposure Risk of aspirat	fSTOT repeat		or hazardous properties f aspiration toxicity	
Gentoxicity in	vitro	Ames test Sal negati <i>v</i> e	monella typhimurium	
Gentoxicity in	vivo	Method: chromosomal negative Method:	OECD Test Guideline 47 aberration Mouse intraperit OECD Test Guideline 474	oneal (i.p.)
teratogenicity	teratogenicity assessment		ryo-foetal toxicity and terato	genicity.
		Potential embryo-foetal toxicity and teratogenicity.		
Human experi	ence	Liver and kidn	ey injuries may occur.	
Further inform	ation	causes damag nose and throa	ge to liver, kidney and nervo	aled or absorbed through skir ous system. Causes eye, skin cause blindness if swallowed.
Ethanol Acute oral toxi	city	LD50 Rat: 70 RTECS	60 mg/kg	
		LD50 Rat: 10 Method: literature	470 mg/kg OECD Test Guideline 40 <sup>-</sup>	1
Acute inhalatio	on toxicity	LC50 Rabbit: Method: literature	117 - 125 mg/l / 4 h / vapou OECD Test Guideline 403	
Acute der mal	toxicity	LD50 Rabbit: literature	> 20000 mg/kg	
Skin irritation		Rabbit not irritating Method: literature	OECD Test Guideline 404	4

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п				
Eye irritation	Rabbit not irritating Method: OEC literature	D Test Guideline 405		
Sensitization		say Mouse: No sensitizing D TG 429	effects.	
Assessment of STOT single exposure	no evidence for hazardous properties			
Assessment of STOT repeat exposure	no evidence for haza	dous properties		
Risk of aspiration toxicity	No evidence of aspiration toxicity			
Gentoxicity in vitro	Ames test Salmonella negative	a typhimurium		
		D TG 471		
	negative	mouse lymphoma cell (L5	5178Y)	
	Method: OEC literature	D TG 476		
Mutagenicity assessment	This product contains mutagenic effects in i	an ingredient that has be n vivo testing.	en shown to produce	

## 12. Ecological information

## 12.1. Toxicity Toxicity to fish

LC50 Brachydanio rerio: > 1000 mg/l / 96 h Method: OECD TG 203

LC0 Brachydanio rerio: >= 1000 mg/l / 96 h Method: OECD TG 203

## 12.2. Persistence and degradability

Biodegradability

Bioaccumulation

Exposure time:		28 d
Result:	62 %	Readily biodegradable.
Method:	(CO2; r	modif. Sturm test / OECD 301 B)

## 12.3. Bioaccumulative potential

low

## 12.4. Mobility in soil

Mobility

Adsorption on the floor: low.

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#### 12.5. Other adverse effects

Further Information

The data we have at our disposal do not necessitate identification concerning environmental hazard.

#### 13. Disposal considerations

## 13.1. Waste treatment methods

#### Product

Waste must be disposed of in accordance with federal, provincial, state and local regulations. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH.

#### **Uncleaned packaging**

Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

Incorrect disposal or reuse of this container is illegal and can be dangerous. Other countries: observe the national regulations.

## 14. Transport information

## Not dangerous according to transport regulations.

- 14.1. UN number:
- 14.2. UN proper shipping name:
- 14.3. Transport hazard class(es):
- 14.4. Packing group:
- 14.5. Environmental hazards (Marine -- pollutant):
  14.6. Special precautions for user: Yes Not dangerous according to transport regulations.

## 15. Regulatory information

## **US Federal Regulations**

## OSHA

If listed below, chemical specific standards apply to the product or components:

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None listed

## **Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- Methanol
  - CAS-No. 67-56-1

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#### **CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

None listed

#### SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

• Chronic Health Hazard

#### SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

None listed

#### Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

#### **Other US Federal Regulatory Information**

This product contains a component that is subject to a TSCA Significant New Use Rule (SNUR). The limitations on the use of this product are that the product may only be used in anti-graffiti systems and the product may not be used in a way that creates a mist, aerosol, or other respirable form of the product. The product may not be sprayed and should be applied to surfaces via brush or roller. If a product containing the regulated component is distributed further it is required that the distributor ensure that these limitations are communicated to downstream users.

#### **State Regulations**

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

#### **California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

• Methanol CAS-No. 67-56-1

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

#### **HMIS Ratings**

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	Health :	1		
	Flammability : Physical Hazard :	1 0		
NFPA Rati	ngs			
	Health : Flammability : Reactivity :	1 1 0		

## 16. Other information

#### **Further information**

Revision date 05/01/2015

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend ACC	American Chamietry Council
ACCIH	American Chemistry Council American Conference of Governmental Industrial Hygenists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c. CAO	closed cup Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR CMR	Code of Federal Regulations carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DM EL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50 EPA	half maximal effective concentration Environmental Protection Agency
ErC50	Reduction of Grow th Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS HMIS	Hazard Communication Standard Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
	International Council of Chemical Association
ID IMDG	Identification number International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
	LC50 or EC50
LOAEL LOEL	Low est observed adverse effect level Low est observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c. OECD	open cup Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ SDS	Reportable Quantity Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative

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voc WHMIS WHO volatile organic compounds Workplace Hazardous Materials Information System World Health Organization