Safety Data Sheet

Issue Date: 21-May-2013 Revision Date: 10-Sep-2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name PC XTREME, Part A

Other means of identification

SDS # 130612-41AR

Recommended use of the chemical and restrictions on use

Recommended Use Concrete Repair.

Details of the supplier of the safety data sheet

Supplier Address

Protective Coatings Co. 221 S Third St. Allentown, PA 18102 USA

Emergency Telephone Number

Company Phone Number 610-432-3543 / 800-220-2103

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Viscous liquid Physical State Liquid Odor Slight

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Signal Word

Danger

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure

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Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isocyanic acid, polymethylenepolyphenylene ester, polymer with		30-60
.alphahydroomegahydroxypoly(oxy(methyl-1,2- ethanediyl)]		
4,4' Diphenylmethane Diisocyanate	101-68-8	20-40
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	5873-54-1	7-13

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant,

paramedic, or community medical support.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists: Get medical

advice/attention.

Skin Contact Wash with soap and water. Remove and wash contaminated clothing before reuse. If skin

irritation or rash occurs: Get medical advice/attention.

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Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give

artificial respiration. Get medical attention immediately.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Never

give anything by mouth to an unconscious person. Remove stomach contents by medical

personnel only. Immediate medical attention is required.

Most important symptoms and effects

Symptoms May cause eye, skin and respiratory tract irritation. Direct contact may cause temporary

redness and discomfort. Can cause allergic response in susceptible or hypersensitive individuals upon repeated or prolonged exposure. May cause allergy or asthma symptoms

or breathing difficulties if inhaled.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Skin and eye conditions may be aggravated by long term exposure.

Medical Conditions Aggravated by Long-Term Exposure: skin disorders and allergies and

eve conditions.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO2), Dry chemical, Water spray (fog).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

May generate toxic or irritating combustion products.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2),

Protective equipment and precautions for firefighters

Keep containers cool with water spray. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways. Heating may cause pressure buildup and possible rupture of the container. Cool exposed containers with water to prevent rupturing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective gloves/protective clothing and eye/face protection. Remove any

contaminated clothing and wash thoroughly before reuse. In enclosed areas, cleanup

personnel should wear self-contained breathing apparatus.

Follow applicable OSHA regulations (29 CFR 1910.120). For Emergency Responders

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Cover spills with sawdust, vermiculite, or

other absorbent material to minimize spreading of the material before collecting.

Methods for Clean-Up Sweep up absorbed material and shovel into suitable containers for disposal. Discard any

product, residue, disposable container or liner in full compliance with federal, state, and

local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wear respiratory protection. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not allow contaminated clothing out of the

workplace. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Incompatible Materials Strong acids. Peroxides. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4,4' Diphenylmethane Diisocyanate	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm	IDLH: 75 mg/m ³
101-68-8		regulated under Methylene	Ceiling: 0.020 ppm 10 min
		bisphenyl isocyanate	Ceiling: 0.2 mg/m ³ 10 min
		(vacated) Ceiling: 0.2 mg/m ³	TWA: 0.005 ppm
		regulated under Methylene	TWA: 0.05 mg/m ³
		bisphenyl isocyanate	_
		Ceiling: 0.02 ppm	
		Ceiling: 0.2 mg/m ³	

Appropriate engineering controls

Engineering Controls Provide general or local exhaust ventilation systems if possible. Make emergency eyewash

stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

Skin and Body ProtectionWear chemically protective gloves to prevent skin contact. Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Refer to 29 CFR

1910.138 for appropriate skin and body protection.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. Follow OSHA respirator

regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved

respirator.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Never eat, drink, or

smoke in work areas. Practice good personal hygiene after using this material, especially

before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash

contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Appearance Viscous liquid Odor Slight

Color Not determined Odor Threshold Not determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not determined
Melting Point/Freezing Point Not determined
Boiling Point/Boiling Range Not determined

Flash Point $> 100 \, ^{\circ}\text{C} \, / \, > 212 \, ^{\circ}\text{F}$

Evaporation Rate Not determined Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not available **Lower Flammability Limit** Not available **Vapor Pressure** Not determined **Vapor Density** Not determined **Specific Gravity** 1.09 g/cm3 Water Solubility Insoluble in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** 800-1200 cps **Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Product will react with water.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary

amines and metal compounds.

Conditions to Avoid

Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

Incompatible Materials

Strong acids. Peroxides. Oxidizing agents.

Hazardous Decomposition Products

Incomplete burning may produce nitrogen oxides, hydrogen cyanides, carbon monoxide, and/or carbon dioxide.

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Causes skin irritation. May cause an allergic skin reaction.

Inhalation Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms

or breathing difficulties if inhaled.

Ingestion May cause nausea, vomiting, stomach ache, and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
4,4' Diphenylmethane Diisocyanate	= 31600 mg/kg (Rat) = 9200	-	= 369 mg/m ³ (Rat) 4 h
101-68-8	mg/kg (Rat)		

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
4,4' Diphenylmethane Diisocyanate 101-68-8		Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of WastesContact your supplier or a licensed contractor for detailed recommendations. Disposal

should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Isocyanic acid,	Present	X				Present	X	Present	X	X
polymethylenepolyphenylene										
ester, polymer with										
.alphahydroomegahydro										
xypoly(oxy(methyl-1,2-ethan										
ediyl)]										
4,4' Diphenylmethane	Present	X		Present		Present	X	Present	X	X
Diisocyanate										
Benzene,	Present	X		Present		Present	X	Present	X	X
1-isocyanato-2-[(4-isocyanat										
ophenyl)methyl]-										

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

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PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
4,4' Diphenylmethane Diisocyanate	5000 lb		RQ 5000 lb final RQ
101-68-8			RQ 2270 kg final RQ

SARA 311/312 Hazard Categories

Acute Health Hazard Yes **Chronic Health Hazard** Yes

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
4,4' Diphenylmethane Diisocyanate - 101-68-8	101-68-8	40	1.0
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl] 5873-54-1	5873-54-1	13	1.0

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
4,4' Diphenylmethane Diisocyanate 101-68-8	Х	Х	X
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	Х		

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards200Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection2*00R

Chronic Hazard Star Legend *= Chronic Health Hazard

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Issue Date: 21-May-2013 Revision Date: 11-Sep-2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name PC XTREME, Part B

Other means of identification

SDS # 130612-41BR

Recommended use of the chemical and restrictions on use

Recommended Use Concrete Repair.

Details of the supplier of the safety data sheet

Supplier Address

Protective Coatings Co. 221 S Third St. Allentown, PA 18102 USA

Emergency Telephone Number

Company Phone Number 610-432-3543 / 800-220-2103

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Gray liquid Physical State Liquid Odor Slight amine

Classification

Skin sensitization Category 1

Signal Word Warning

Hazard Statements

May cause an allergic skin reaction



Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

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Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
1,3-Benzenediamine, 4-methyl-2,6-bis(methylthio)	102093-68-5	5-10
(DMTDA)		
Titanium dioxide	13463-67-7	3-7
dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	0.1-1.0
Carbon Black	1333-86-4	0.1-1.0

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant,

paramedic, or community medical support.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists: Get medical

advice/attention.

Skin ContactWash with soap and water, Remove and wash contaminated clothing before reuse. If skin

irritation or rash occurs: Get medical advice/attention.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison

center if individual's condition declines or if symptoms persist.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Never

give anything by mouth to an unconscious person. Remove stomach contents by medical

personnel only. Immediate medical attention is required.

Most important symptoms and effects

Symptoms May cause eye, skin and respiratory tract irritation. Direct contact may cause temporary

redness and discomfort. The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Skin and eye conditions may be aggravated by long term exposure.

Medical Conditions Aggravated by Long-Term Exposure: skin disorders and allergies and

eye conditions.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO2), Dry chemical, Water spray (fog).

Unsuitable Extinguishing Media Water jet.

Specific Hazards Arising from the Chemical

May generate toxic or irritating combustion products.

Hazardous Combustion Products Thermal decomposition products are toxic and may include oxides of carbon and nitrogen, amines, hydrogen cyanideand other irritating or toxic gases.

Protective equipment and precautions for firefighters

Keep containers cool with water spray. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways. Heating may cause pressure buildup and possible rupture of the container. Cool exposed containers with water to prevent rupturing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsWear protective gloves/protective clothing and eye/face protection. Remove any

contaminated clothing and wash thoroughly before reuse. In enclosed areas, cleanup

personnel should wear self-contained breathing apparatus.

For Emergency Responders Follow applicable OSHA regulations (29 CFR 1910.120).

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Cover spills with sawdust, vermiculite, or

other absorbent material to minimize spreading of the material before collecting.

Methods for Clean-Up

Sweep up absorbed material and shovel into suitable containers for disposal. Discard any

product, residue, disposable container or liner in full compliance with federal, state, and

local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Do not eat, drink or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling. Use only with adequate

ventilation. Avoid contact with skin, eyes or clothing. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of

the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended

storage temperature range in between 4 °C and 35 °C (40°F and 95°F).

Incompatible Materials Oxidizing agents and strong alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³
13463-67-7		(vacated) TWA: 10 mg/m ³ total	_
		dust	
dimethylbis[(1-oxoneodecyl)oxy]stannane	STEL: 0.2 mg/m ³ Sn	TWA: 0.1 mg/m ³ Sn	IDLH: 25 mg/m ³ Sn
68928-76-7	TWA: 0.1 mg/m ³ Sn	(vacated) TWA: 0.1 mg/m ³ Sn	TWA: 0.1 mg/m ³ except
	S*	(vacated) S*	Cyhexatin Sn
Carbon Black	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³
1333-86-4		(vacated) TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
			TWA: 0.1 mg/m ³ Carbon black in
			presence of Polycyclic aromatic
			hydrocarbons PAH

Pre-existing respiratory disorders may be aggravated by exposure. If sanded, this material may generate silica / titanium dust. Inhaled silica / titanium has been classified by IARC as

a human carcinogen (see section 11).

Appropriate engineering controls

Engineering Controls Provide general or local exhaust ventilation systems if possible. Make emergency eyewash

stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

Skin and Body ProtectionWear chemically protective gloves to prevent skin contact. Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Refer to 29 CFR

1910.138 for appropriate skin and body protection.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. Follow OSHA respirator

regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Avoid contact with skin, eves and clothing. After handling this product, wash hands before

eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before

reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical StateLiquidAppearanceGray liquidOdorSlight amineColorGrayOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Not determined Melting Point/Freezing Point Not determined

Boiling Point/Boiling Range Not determined > 100 °C / > 212 °F

Evaporation Rate Not determined Flammability (Solid, Gas) Not determined

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Upper Flammability Limits Not available **Lower Flammability Limit** Not available **Vapor Pressure** Not determined Vapor Density Not determined **Specific Gravity** 1.04 g/cm3 Water Solubility Not soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** 3000-7000 cps **Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

Incompatible Materials

Oxidizing agents and strong alkalis.

Hazardous Decomposition Products

Incomplete burning may produce nitrogen oxides, hydrogen cyanides, carbon monoxide, and/or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact May cause temporary irritation on eye contact.

Skin Contact May cause an allergic skin reaction. Prolonged contact may cause redness and irritation.

Inhalation May cause irritation if inhaled.

May cause nausea, vomiting, stomach ache, and diarrhea. Ingestion

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Carbon black is a possible carcinogen when it appears as a respirable dust.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7		Group 2B		X
Carbon Black 1333-86-4	A3	Group 2B		Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

Chemical Name	Chemical Name Algae/aquatic plants		Toxicity to microorganisms	Crustacea
Carbon Black 1333-86-4				5600: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Contact your supplier or a licensed contractor for detailed recommendations. Disposal

should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1,3-Benzenediamine, 4-methyl-2,6-bis(methylthio) (DMTDA)	Present						Х		X	
Titanium dioxide	Present	Х		Present		Present	Х	Present	Χ	Х
dimethylbis[(1-oxoneodecyl) oxy]stannane	Present	Х		Present			Х		Х	Х
Carbon Black	Present	Х		Present	Present	Present	Χ	Present	Х	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Acute Health Hazard

Yes

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name		California Proposition 65		
	Titanium dioxide - 13463-67-7	Carcinogen		
	Carbon Black - 1333-86-4	Carcinogen		

U.S. State Right-to-Know Regulations

Ī	Chemical Name	New Jersey	Massachusetts	Pennsylvania
	Titanium dioxide 13463-67-7	X	X	X
Ī	Carbon Black 1333-86-4	X	X	X

16. OTHER INFORMATION

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	2	1	0	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2*	1	0	В

Chronic Hazard Star Legend *= Chronic Health Hazard

Issue Date:21-May-2013Revision Date:11-Sep-2015Revision Note:New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet