

ProtoCoat 1253 Hardener

(Part B)

Safety Data Sheet (SDS)

Section 1 - Product and Company Identification

Trade Name: ProtoCoat 1253 Hardener (All Versions)

Company:

Wolverine Coatings Corporation 5969 Highway 221 Roebuck, SC 29376 +1 (864) 587-3144

Product Use: Coatings

Product Code: ProtoCoat 1253 WH2A Hardener

Emergency Contact:

ChemTel 24 Hr. US Emergency Number: +1 (800) 255-3924

ChemTel 24 Hr. Worldwide Emergency Number:

+1 (813) 248-0585

Not recommended for: None Identified

Section 2 - Hazards Identification

GHS Ratings:

-		
Flammable Liquid	3	Flash point >= 23°C and <= 60°C (140°F)
Skin Corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye Corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Respiratory sensitizer	1	Respiratory sensitizer
Organ Toxin Single Exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies, Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidan
Organ Toxin	1	Significant toxicity in humans- Reliable, good quality human case
Repeated Exposure		studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidanc

GHS Hazards

H226 H315 H319 H334 H370 H372	Flammable liquid and vapour Causes skin irritation Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled Causes damage to organs Causes damage to organs through prolonged or repeated exposure
GHS Precautions	
P210	Keep away from heat/sparks/open flames/hot surfaces - No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection

P314 Get Medical advice/attention if you feel unwell

P321 Specific treatment (see label)

P362 Take off contaminated clothing and wash before reuse

P302+P352 IF ON SKIN: Wash with soap and water

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing

P307+P311 IF exposed: Call a POISON CENTER or doctor/physician P332+P313 If skin irritation occurs: Get medical advice/attention

P337+P313 Get medical advice/attention

P342+P311 Call a POISON CENTER or doctor/physician

P370+P378 In case of fire: Use carbon dioxide, alcohol-resistant foam, dry chemical, dry sand,

or water fog for extinction

P405 Store locked up

P403+P235 Store in a well ventilated place. Keep cool

P501 Dispose of contents/container in accordance with all local, regional, national, and

international regulations.

Signal Word: Danger





Section 3 - Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Titanium Dioxide	13463-67-7	20.00% - 30.00%
Quartz	14808-60-7	20.00% - 30.00%
Xylene	1330-20-7	10.00% - 20.00%
Tetraethylenepentamine	112-57-2	0.10% - 1.00%

Section 4 - First Aid Measures

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Eye Contact: Immediately flush eyes for at least fifteen minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If eye irritation persists: Get medical advice/attention.

Skin contact: Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 25 C (77 F) LEL: 1.00 UEL: 7.00

Extinguishing Media: Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder

extinguishing systems.

Unusual Fire and Explosion Hazards: None

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Stability and Reactivity) for additional information.

Special Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus.

Fire Equipment: No Data

Section 6 - Accidental Release Measures

Spill And Leak Procedures: Avoid all personal contact. Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7 - Handling and Storage

Handling Precautions: Use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

Storage Requirements: Keep away from heat, sparks, and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS #	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Titanium Dioxide 13463-67-7	TWA: 15 mg/m3	TWA: 10 mg/m3	Not Established
Quartz 14808-60-7	TWA30 mg/m3 / %SiO2+2 total dust TWA: 10 mg/m3 /%SiO2+2 respirable fraction	TWA: 0.025 mg/m3	Not Established
Xylene 1330-20-7	Not Established	TWA: 100 ppm	Not Established
Tetraethylenepentamine 112-57-2	Not Established	Not Established	Not Established

Ventilation: Good general mechanical ventilation and local exhaust is recommended.

Hygiene: Eye wash must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary.

Personal Protective Equipment: Wear impervious protective gloves. Wear OSHA, NIOSH approved organic vapor respirator if ventilation is inadequate. Wear appropriate protective eyewear such as splash-proof, chemical resistant safety goggles.

Contaminated Gear: Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance: Liquid	Odor: Not available
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Vapor Pressure: 18.0 mm Hg Odor Threshold: Not available **Vapor Density:** Not available pH: Not available Density (g/cm3): 1.42 **Melting Point:** Not available **Freezing Point:** Not available Solubility: Not available **Boiling Range:** Not available Flash Point: 25 C, 77 F **Evaporation Rate:** Not available Flammability: Not available Not available Partition Coefficient (n-**Explosive Limits:** Not available octanol/water): Autoignition Not available Decomposition Not available Temperature: Temperature: Viscosity: **Grams VOC (less** Not available Not available water):

Section 10 - Stability and Reactivity

Stability:

STABLE

Components of this mixture are incompatible with the following materials:

Strong Acids Strong Oxidizers

This mixture is likely to exhibit the following combustion products:

No Data

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity:

Inhalation Toxicity LC50: 54mg/L

Component Toxicity:

13463-67-7 Titanium Dioxide

Inhalation LC50: 7 mg/kg (Rat)

1330-20-7 Xylene

Oral LD50: 4,300 mg/kg (rat) Dermal LD50: 1,700 mg/kg (rabbit) Inhalation LC50: 5,000 ppr

112-57-2 Tetraethylenepentamine

Oral LD50: 3,990 mg/kg (rat)

Routes of Entry:

Inhalation Skin Contact Eye Contact Ingestion

Exposure to this material may affect the following organs:

Lungs Respiratory System

The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing):

CAS Number Description % Weight **Carcinogen Rating** Quartz 20 to 30% Quartz: If product is in liquid or 14808-60-7 paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other

abrasive processes.

Section 12 - Ecological Information

Component Ecotoxicity:

Titanium Dioxide LC50 >1000 mg/l fish 96h; EC50 >1000 mg/l water flea 48h; EC50 >100

mg/l algae 72h

Quartz LC50 >10,000 mg/l fish 72h;

Xylene LC50 2 mg/l fish 96h; EC50 75.49 mg/l water flea 24h; EC50 72 mg/l algae

14d

Tetraethylenepentamine LC50 420 mg/l fish 96h; EC50 24 mg/l water flea 48h

Section 13 - Disposal Considerations

Waste disposal Methods: Dispose in accordance with Federal, State and Local regulations.

Section 14 - Transport Information

This material is classified for transport as follows:

Agency Proper Shipping Name UN Number Packing Group Hazard Class

DOT Paint 1263 III 3

IATA No Data IMDG No Data

Section 15 - Regulatory Information

Additional regulatory listings, where applicable:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

Quartz 14808-60-7

Titanium Dioxide 13463-67-7

Materials not included on the Canada DSL inventory:

- None

Commonwealth of Massachusetts "Right to Know": This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

Tetraethylenepentamine 112-57-2

Xylene 1330-20-7 Quartz 14808-60-7

Titanium Dioxide 13463-67-7

NJ "Right to Know": This product contains the following toxic or hazardous substances which appear on the New Jersey Substance List:

Tetraethylenepentamine 112-57-2

Xylene 1330-20-7 Quartz 14808-60-7

Titanium Dioxide 13463-67-7

Pennsylvania "Right to Know": This product contains the following toxic or hazardous substances which appear on the Pennsylvania Substance List:

Tetraethylenepentamine 112-57-2

Xylene 1330-20-7 Quartz 14808-60-7

Titanium Dioxide 13463-67-7

EPA SARA Title III Section 313 (40 CFR 372) components above 'de minimum' level:

Xylene 1330-20-7

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

Country Regulation All Components Listed

EU Risk Phrases

Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

EPA SARA Title III Section 313 (40 CFR 372) compnenets above 'de minimum' level:

Section 16 - Other Information

For further information, please contact the Product Safety director. The information and recommendations contained herein are, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. No representations or warranties, either expressed or implied of merchantability, fitness for a particular purpose, or any other nature, are made hereunder with respect to the information contained herein, or to the chemical to which the user refers.

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