



SAFETY DATA SHEET

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Urethane Cement Product Code: 80-EC24AX-98

WESTCOAT SPECIALTY COATING SYSTEMS
4007 Lockridge St
San Diego, CA 92102

Information Telephone: 800-250-4519
Emergency Telephone: 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

GHS Ratings:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: \geq 2.3 < 4.0 or persistent inflammation
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Mutagen	2	Suspected/Possible: May include heritable mutations in human germ cells, Positive evidence from tests in mammals and somatic cell tests, In vivo somatic genotoxicity supported by in vitro mutagenicity
Reproductive toxin	1B	Presumed, Based on experimental animals

GHS Hazards

H315+H320	Causes skin and eye irritation
H341	Suspected of causing genetic defects
H360	May damage fertility or the unborn child

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash ... thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see ... on this label)
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: Danger



Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Castor oil	8001-79-4	40.00% - 50.00%
Butyl benzyl phthalate	85-68-7	20.00% - 30.00%
Pine oil	8002-09-3	5.00% - 10.00%
Petroleum distillates, hydrotreated light	64742-47-8	1.00% - 5.00%

Section 4 - FIRST AID MEASURES

First aid measures for different exposure routes

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation.

EYE CONTACT: Immediately flush eyes with plenty of water for least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cups full of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively.

Section 5 - FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, and Water Fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No unusual fire or explosion hazards noted. Keep containers tightly closed.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent buildup of steam. If water is used, fog nozzles are preferred.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

FOR NON-EMERGENCY PERSONNEL: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

FOR EMERGENCY RESPONDERS: If specialized clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 7 - HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

CONDITIONS FOR SAFE STORAGE: Keep from freezing. Store in a dry, well ventilated place. Keep container tightly closed when not in use.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Castor oil 8001-79-4	Not Established	Not Established	Not Established
Butyl benzyl phthalate 85-68-7	Not Established	Not Established	Not Established
Pine oil 8002-09-3	Not Established	Not Established	Not Established
Petroleum distillates, hydrotreated light 64742-47-8	Not Established	Not Established	Not Established

Individual protection measures, such as personal protective equipment

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid Odor threshold : N/A Melting point : N/A Flash Pt(F/C) : N/A Flammability (solid, gas) : N/A Vapor pressure : N/A Relative density : 0.99 Partition coefficient:n- N/A octanol/water : Decomposition temp : N/A	Odor : Mild odor PH : 8 to 11.5 Boiling point : >100°C (>212°F) Evaporation rate : <1 (Butyl Acetate = 1) LEL/UEL : N/A Vapor density : >1 (Air = 1) Solubility : Dilutable Autoignition temp : 449°C Viscosity : N/A
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Section 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid contact with strong acid and strong bases.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalis.

Section 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity
Component Toxicity

85-68-7	Butyl benzyl phthalate Oral LD50: 2,330 mg/kg (Rat)
8002-09-3	Pine oil Oral LD50: 3,200 mg/kg (Rat)

Effects of Overexposure

EYE CONTACT: Causes eye irritation. Irritating, and may injure eye tissue if not removed promptly.

SKIN CONTACT: Substance may cause slight skin irritation. Low hazard for usual industrial handling or commercial handling by trained personnel.

INHALATION: Low hazard for usual industrial handling or commercial handling by trained personnel. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist.

INGESTION: Substance may be harmful if swallowed.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact.

Section 12 - ECOLOGICAL INFORMATION

Component Ecotoxicity

Butyl benzyl phthalate	96 Hr LC50 Oncorhynchus mykiss: 1.0 - 10.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.82 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 1.39 - 3.88 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >0.78 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 1.0 - 10.0 mg/L [static] 48 Hr EC50 Daphnia magna: 0.9 - 1.1 mg/L [Static]; 48 Hr EC50 Daphnia magna: >0.76 mg/L [Flow through]; 48 Hr EC50 Daphnia magna: 1.28 mg/L [semi-static]; 48 Hr EC50 Daphnia magna: 0.97 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 0.02 - 0.25 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.2 - 28.2 mg/L
Pine oil	48 Hr EC50 Daphnia magna: 17 - 28 mg/L [Flow through]
Petroleum distillates, hydrotreated light	96 Hr LC50 Pimephales promelas: 45 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 2.2 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 2.4 mg/L [static]

Section 13 - DISPOSAL CONSIDERATIONS

DISPOSAL INFORMATION: Dispose of material in accordance to local, state, and federal regulations and ordinances . Do not allow to entering waterways, wastewater, soil, storm drains or sewer systems .

Section 14 - TRANSPORT INFORMATION

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Non-Regulated Material			

Section 15 - REGULATORY INFORMATION

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:

85-68-7 Butyl benzyl phthalate 20 to 30 % Carcinogen

CERCLA-SARA Hazard Category: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- None

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

- None

Section 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="checkbox"/>	1	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	<input type="checkbox"/>	0	
PHYSICAL HAZARD	<input type="checkbox"/>	0	
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	X	

Westcoat Specialty Coating Systems believes, to the best of its knowledge, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Westcoat Specialty Coating Systems makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Reviewer Revision

Date Prepared: 7/15/2016



SAFETY DATA SHEET

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Urethane Cement Product Code: 80-EC24BX-98

WESTCOAT SPECIALTY COATING SYSTEMS
4007 Lockridge St
San Diego, CA 92102

Information Telephone: 800-250-4519
Emergency Telephone: 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

GHS Ratings:

Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1B	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity

GHS Hazards

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash ... thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P284	Wear respiratory protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel unwell
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing . Rinse skin with water/shower
P304+P340	IF INHALED: 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

P306+P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes

P308+P313 IF exposed or concerned: Get medical advice/attention

P332+P313 If skin irritation occurs: Get medical advice/attention

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P337+P313 If eye irritation persists, get medical advice/attention

P405 Store locked up

P403+P233 Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents/container to ...

Signal Word: Danger



Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
4,4'-Methylenediphenyl diisocyanate	101-68-8	30.00% - 40.00%
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	30.00% - 40.00%
Benzene, 1,1'-methylenebis[isocyanato-	26447-40-5	10.00% - 20.00%
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro-.omega.-hydroxypoly(oxy-1,2-ethanediyl)	57636-09-6	1.00% - 5.00%

Section 4 - FIRST AID MEASURES

First aid measures for different exposure routes

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

EYE CONTACT: Immediately flush eyes with plenty of water for a least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cups full of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively.

Section 5 - FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, CO₂, Water spray (fog) or foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Flammable liquid and vapor. In a fire or if heated, a

pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides.

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

FOR NON-EMERGENCY PERSONNEL: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

FOR EMERGENCY RESPONDERS: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Methods and materials for containment and cleaning up

SMALL SPILL: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 7 - HANDLING AND STORAGE

Precautions for safe handling

PROTECTIVE MEASURES: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb

with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Approach release from upwind. Prevent entry into sewers, watercourses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
4,4'-Methylenediphenyl diisocyanate 101-68-8	Not Established	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	NIOSH: 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m ³ TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m ³ Ceiling (10 min)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Not Established	Not Established	Not Established
Benzene, 1,1'-methylenebis [isocyanato- 26447-40-5	Not Established	Not Established	Not Established
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro.-omega.-hydroxypoly(oxy-1,2-ethanediyl) 57636-09-6	Not Established	Not Established	Not Established

APPROPRIATE ENGINEERING CONTROLS: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures, such as personal protective equipment

GENERAL HYGIENE CONSIDERATIONS: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

EYE/FACE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

HANDS PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

BODY PROTECTION: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing . For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

OTHER SKIN PROTECTION: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid	Odor : N/A
Odor threshold : N/A	PH : N/A
Melting point : N/A	Boiling point : 300°C
Flash Pt(C/F) : 208°C, 406°F	Evaporation rate : Slower than ether
Flammability (solid, gas) : Non combustible liquid	LEL/UEL : N/A
Vapor pressure : N/A	Vapor density : N/A
Relative density : 1.22	Solubility : N/A
Partition coefficient:n- N/A	Autoignition temp : 240°C
octanol/water :	

Decomposition temp : N/A

Viscosity : N/A

Section 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

REACTIVITY: No specific test data related to reactivity available for this product or its ingredients.

CHEMICAL STABILITY: The product is stable.

POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, hazardous reactions will not occur.

INCOMPATIBLE MATERIALS: Reactive or incompatible with the following materials: oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity LC50: 0mg/L

Component Toxicity

101-68-8	4,4'-Methylenediphenyl diisocyanate Inhalation LC50: 369 mg/m ³ (Rat)
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester Oral LD50: 49 g/kg (Rat) Inhalation LC50: 490 mg/m ³ (Rat)
26447-40-5	Benzene, 1,1'-methylenebis[isocyanato- Inhalation LC50: 0 mg/L (Rat)

Exposure to this material may affect the following organs:

Effects of Overexposure

EYE CONTACT: Causes serious eye irritation.

INHALATION: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

SKIN CONTACT: Causes skin irritation. May cause an allergic skin reaction.

INGESTION: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

EYE CONTACT: Adverse symptoms may include the following: pain or irritation watering, redness.

INHALATION: Adverse symptoms may include the following: respiratory tract irritation, coughing, wheezing and breathing difficulties asthma.

SKIN CONTACT: Adverse symptoms may include the following: irritation, redness.

INGESTION: No specific data.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
26447-40-5	Benzene, 1,1'-methylenebis [isocyanato-	10 to 20%	

Section 12 - ECOLOGICAL INFORMATION

Component Ecotoxicity

None

Section 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose of in compliance with all local, state and federal government regulations .

Section 14 - TRANSPORT INFORMATION

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Non-Regulated Material			

Section 15 - REGULATORY INFORMATION

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:

- None

CERCLA-SARA Hazard Category: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

101-68-8 4,4'-Methylenediphenyl diisocyanate 30 to 40 %

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

- None

Section 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="2"/>	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	<input type="text" value="1"/>	
PHYSICAL HAZARD	<input type="text" value="1"/>	
PERSONAL PROTECTION	<input type="text" value="B"/>	

Westcoat Specialty Coating Systems believes, to the best of its knowledge, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Westcoat Specialty Coating Systems makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Reviewer Revision

Date Prepared: 7/14/2016



SAFETY DATA SHEET

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Cement White Product Code: 60-TC02-00

WESTCOAT SPECIALTY COATING SYSTEMS
4007 Lockridge St
San Diego, CA 92102

Information Telephone: 800-250-4519
Emergency Telephone: 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

GHS Ratings:

Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: $\geq 1.5 < 2.3$
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Carcinogen	1A	Known Human Carcinogen Based on human evidence

GHS Hazards

H316	Causes mild skin irritation
H319	Causes serious eye irritation
H350	May cause cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash ... thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to ...

Signal Word: **Danger**



Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
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Silica, amorphous	7631-86-9	50.00% - 60.00%
Cement, portland, chemicals	65997-15-1	30.00% - 40.00%
Quartz	14808-60-7	10.00% - 20.00%
Gypsum (Ca(SO4).2H2O)	13397-24-5	1.00% - 5.00%

Section 4 - FIRST AID MEASURES

First aid measures for different exposure routes

INHALATION: If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

EYE CONTACT: Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

GENERAL INFORMATION: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Section 5 - FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use an extinguishing suitable for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARS ARISING FROM THE CHEMICAL: No specific fire or explosion hazard.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: May include the following materials: carbon dioxide, carbon monoxide, sulfur decomposition oxides and metal oxide/oxides.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

FIRE FIGTING EQUIPMENT/INSTRUCTIONS: Move containers from fire area if you can do so without risk.

SPECIFIC METHODS: Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and clean up

Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental Precautions

Avoid discharge into drains or water courses.

Section 7 - HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Do not get this material in contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

CONDITIONS FOR SAFE STORAGE: Keep from freezing. Store in a dry, well ventilated place. Keep container tightly closed when not in use.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Silica, amorphous 7631-86-9	Not Established	Not Established	NIOSH: 6 mg/m ³ TWA
Cement, portland, chemicals 65997-15-1	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	1 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Quartz 14808-60-7	Not Established	0.025 mg/m ³ TWA (respirable fraction)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
Gypsum (Ca(SO ₄).2H ₂ O) 13397-24-5	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA (inhalable fraction, listed under Calcium sulfate)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)

EXPOSURE GUIDELINES: Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

APPROPRIATE ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

EYE/FACE PROTECTION: Wear safety glasses or safety goggles unless full face respirator is in use.

SKIN/HAND PROTECTION: Wear appropriate chemical resistant gloves.

OTHER: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

RESPIRATORY PROTECTION: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

THERMAL HAZARDS: Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE CONSIDERATIONS: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<p>Appearance : Solid</p> <p>Odor threshold : N/A</p> <p>Melting point : >1000°C (>1832°F)</p> <p>Flash Pt(F/C) : N/A</p> <p>Flammability (solid, gas) : N/A</p> <p>Vapor pressure : N/A</p> <p>Relative density : 2.3 to 3.1</p> <p>Partition coefficient:n- octanol/water :</p> <p>Decomposition temp : N/A</p>	<p>Odor : Odorless</p> <p>PH : >11.5 (Conc. (%w/w): 1%)</p> <p>Boiling point : >1000°C (>1832°F)</p> <p>Evaporation rate : N/A</p> <p>LEL/UEL : N/A</p> <p>Vapor density : N/A</p> <p>Solubility : N/A</p> <p>Autoignition temp : N/A</p> <p>Viscosity : N/A</p>
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Section 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

REACTIVITY: The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY: Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reaction known under conditions of normal use.

INCOMPATIBLE MATERIALS: Powerful oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Sulfur oxides. Silicium oxide.

Section 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 4,217mg/kg

Component Toxicity

14808-60-7 Quartz
Oral LD50: 500 mg/kg (Rat)

Exposure to this material may affect the following organs:

Effects of Overexposure

INHALATION: May cause damage to organs through prolonged or repeated exposure by inhalation . Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.

SKIN CONTACT: Causes skin irritation. Prolonged contact with wet cement/mixture may cause burns.

EYE CONTACT: Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.

INGESTION: Swallowing may cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological

CHARACTERISTICS: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.

Information on toxicological effects

ACUTE TOXICITY: May cause respiratory irritation.

SKIN CORROSION / IRRITATION: Causes skin irritation.

SERIOUS EYE DAMAGE/ EYE IRRITATION: Causes serious eye damage.

Respiratory or skin sensitization

RESPIRATORY SENSITIZATION: No data available.

SKIN SENSITIZATION: No data available.

GERM CELL MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY: May cause cancer.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from

occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

REPRODUCTIVE TOXICITY: May damage fertility or the unborn child.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE: May cause respiratory irritation.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: May cause damage to organs (Lungs) through prolonged or repeated exposure.

ASPIRATION HAZARD: Due to the physical form of the product it is not an aspiration hazard.

CHRONIC EFFECTS: Prolonged or repeated exposure may cause lung injury, including silicosis. May cause skin disorders if contact is repeated or prolonged.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
14808-60-7	Quartz	10 to 20%	Quartz: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed

Section 12 - ECOLOGICAL INFORMATION

Component Ecotoxicity

Silica, amorphous	96 Hr LC50 Brachydanio rerio: 5000 mg/L [static] 48 Hr EC50 Ceriodaphnia dubia: 7600 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 440 mg/L
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Section 13 - DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS: Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES / UNUSED PRODUCTS: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

CONTAMINATED PACKAGING: Empty containers should be taken to an approved waste handling site for recycling or

disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - TRANSPORT INFORMATION

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Non-Regulated Material			

Section 15 - REGULATORY INFORMATION

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:

14808-60-7 Quartz 10 to 20 % Carcinogen

CERCLA-SARA Hazard Category: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- None

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

- None

Section 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="1"/>	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	<input type="text" value="0"/>	
PHYSICAL HAZARD	<input type="text" value="1"/>	
PERSONAL PROTECTION	<input type="text" value="X"/>	

Westcoat Specialty Coating Systems believes, to the best of its knowledge, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Westcoat Specialty Coating Systems makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Reviewer Revision

Date Prepared: 7/7/2016