

Product Description: Surface Sealer – SATIN

BALLISTIX NCO is a silicon-ceramic treatment designed to provide maximum protection when applied to surfaces against staining, microbial growth, UV exposure. It restores the surfaces to near original color and gloss and brings out the color in stone and masonry.

Suggested Uses:

Honed Concrete, Polished Concrete (with or without existing guard), Epoxy, Decorative Concrete, Vertical Surfaces, Brick, Stone, Stamped Concrete, Stained Concrete, Tile, Terrazzo, Stone, and Grout.

Surface Preparation:

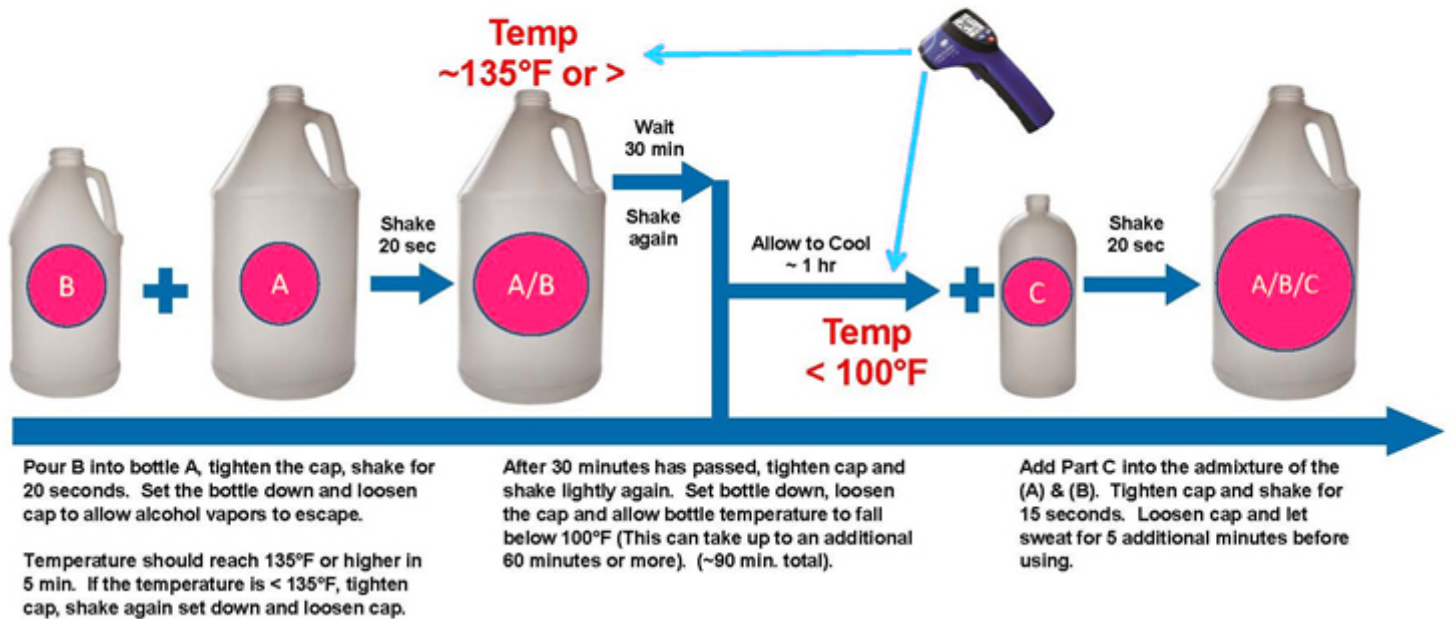
The surface to be coated must be clean, dry and free from dirt, oily residue, grime, loose oxidation, spores (mildew) or any other surface contaminate that could affect product performance. It is imperative to fully and completely clean the surface, as BALLISTIX NCO adheres by covalent and mechanical bonding and must gain intimate contact with the surface. Clean the surface by liberally applying a good cleaner, making sure to remove all residue of the cleaner by flushing vigorously with water. Allow the surface to air dry completely before applying BALLISTIX NCO. We recommend wiping the substrate to be treated with 99% pure isopropyl alcohol before apply BALLISTIX NCO.

Mixing and Catalyzing of BALLISTIX NCO:

BALLISTIX NCO is a three-component material and must be properly mixed for curing to occur. This product is packaged, in kit form, with separate containers for the (A), (B) & (C) components. To mix gallon, quart and smaller kits:

1. Pour Part (B) into the bottle labeled Part (A). Shake for 10 seconds and set the bottle down.
2. Notice the bottle will begin to warm. This is normal, and the bottle will reach about 135-160 degrees. Leave the cap loose to release reaction vapors (alcohol). Shake lightly after 30 minutes. Continue to let the mixture react until it now starts going down in temperature to about 100 degrees. Check the temperature. If the temperature is less than 100 degrees, then continue to step 3 (approximately after 90 minutes total).
3. Next, add the (C) component liquid into the admixture of the (A) & (B) components. Shake for 15 seconds and let sit for 5 additional minutes before using. Pot life of mixed material is 6 hours. Keep container closed when not in use.

3 Part Mixing Instructions



NOTE: When mixing a Quart size kit, the maximum temperature will be approximately 125°F - 130°F and will take approximately a total of 60 minutes before Part C can be added. For a Sample size kit of 8 ounces, the maximum temperature will be approximately 115°F - 120°F and will take approximately a total of 40 minutes before Part C can be added.

Application of BALLISTIX NCO:

Roller: Use a short nap adhesive or mohair roller cover with a solvent resistant core. Pick up a small amount of material into the cover and gently apply using a series of one directional roller strokes. Avoid over rolling the material and avoid working back into partially set material. Maintain a functional working wet line during application and roll to natural breaks. Always mask, and protect surfaces not to be coated.

Brush: Small surface areas or cut in edges can be blended in using a natural hair bristle brush or disposable foam applicator provided the initial application is still freshly wet. This may only be within several minutes in outdoor applications.

Spray: Follow spray equipment instructions and use a small tip capable of laying down approximately 10 to 15 microns wet on a non-porous surface. On porous surfaces ensure reasonable penetration. **Do Not Apply:** if rain, fog or heavy dew is imminent within 12 hours of product installation. **Do Not Mix or Apply:** if the temperature will drop below 50°F at any time during application or within 12 hours of product installation.

BALLISTIX NCO is a single coat application, and the product is chemically designed to not stick to itself. Therefore, this coating cannot be over coated. When first applying the product, if the desired effect is not reached then wash the coating off with denatured alcohol before it is dry and then recoat. When it comes time to apply a new coat of BALLISTIX NCO due to wear and tear, simply agitate the surface with a black pad or a green scotch brite pad for small areas to touch-up/repair.

Safety Requirements:

Warning: Alcohol vapors are flammable. No smoking or hot work in confined or poorly ventilated areas. Methanol vapors are hazardous. Assure sufficient ventilation and wear PPE 9 respirator. Protective eye wear, with side shields and protective gloves are also required when using BALLISTIX NCO. See SDS.

Clean Up:

Application tools and spray equipment should be cleaned with 100% pure denatured alcohol. Flush the pump, hose, pressure pot and gun thoroughly until all product has been cleaned from the spray system. Remove the tip and nozzle and clean thoroughly before replacing onto the gun. Clean up drips, spills or over spray with 100% pure denatured alcohol before the product dries. Always dispose of alcohol-saturated cloths in a safe and proper manner. During clean up/containment, wear protective clothing. Disposal of collected product, residues and clean up materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Mop, wipe or soak up with absorbent material and contain for salvage or disposal. For large spills, provide dikes or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as, clean water hosing, high-pressure power washing or steam cleaning.

Product Yield:

The yield of product varies with substrate condition and application method. The yield can be as high as 1,000 sq. ft. per gallon on non-porous surfaces and as low as 400 sq. ft. per gallon on porous surfaces. Actual field conditions will dictate product yield.

HANDLEABILITY, MIXING AND APPLICATION:

Pot Life: 6 hours.

Dry Film Thickness: 0.5 mils.

Dry Time: Touch: 2 hours @ 70°F, 50% RH, Use: 8 hours on average, Full Cure: 7 days.

SYSTEM PERFORMANCE (Typical Data):

VOC Content: 3.52 lbs./gal, 428 g/liter (Components A, B & C mixed).

Abrasion Resistance: 364 kg load 1000 cycles (ASTM C501), 1500 revolutions, class 3 rating (ASTM C1027).

Salt Spray: 4000 hours (face corrosion, face blistering) NONE. (ASTM B117).

Resistance to Microbial Fungi: Rating 0 (ASTM G2109).

Resistance to Staining: Class A (ANSI A137.1-2008) (ASTM C1378).

Coefficient of Friction: Dry: 0.79, Wet: 0.79 (ASTM C1028).



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SAFETY DATA SHEET-PART A

1. Product Identifier

Product name: BALLISTIX NCO Three Part (Smooth Application) SATIN/PRIMER Interior/Exterior Floor Coating

Details of the Manufacturer/Supplier:

Meghan's Supply & Design LLC
11724 Main St. Ste 200, Fredericksburg, VA 22408
Phone: 540.840.9568

EMERGENCY CONTACT NUMBERS: INFOTRAC, INC.
US, Canada & Mexico +1-800-535-5053
International +1-352-323-3500

Product Description: Three Part (Smooth Application) SATIN/PRIMER interior/exterior Floor Coating

BALLISTIX NCO is a silicon-ceramic treatment designed to provide maximum protection when applied to interior/exterior flooring materials against staining, microbial growth, and UV exposure. It restores the surfaces to near original color and gloss and brings out the color in stone and masonry.

Suggested Uses:

Honed Concrete, Polished Concrete (with or without existing guard), Epoxy, Decorative Concrete, Vertical Surfaces, Brick, Stone, Stamped Concrete, Stained Concrete, Tile, Terrazzo, Stone, and Grout.

2. Hazard(s) Identification

HMIS RATING:

Health: 1.
Flammability: 3.
Reactivity: 0.

Classification of the Substance/Mixture: FLAMMABLE LIQUID, n.o.s.

Signal Word: WARNING!

Hazard Statement: May cause skin irritation. Harmful if inhaled. May cause respiratory irritation. Will emit vapors of methanol if seal is broken and mixture is exposed to moisture.

Hazard Pictograms:



Precautionary Statements: Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection equipment as required. Use with adequate ventilation. Avoid eye contact. Avoid breathing vapors. Do not take internally.

Hazards Not Otherwise Classified: None known.

3. Composition/Information on Ingredients

Substance/Mixture: Proprietary Mixture.

CAS Number	Wt%	Components	Exposure Limits
67-56-1	<1%	Methyl Alcohol	OSHA TWA 200 ppm, 260 mg/m ³ ; ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm
Proprietary Mixture	>98%	Alkoxysilanes	None established; guide TWA 50 ppm

4. First-Aid Measures

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Skin Contact: No first aid should be needed. Wash with soap and water.

Eye Contact: Immediately flush with water for 15 minutes.

Ingestion: Get medical attention. If conscious, induce vomiting. Lie down, keep warm and cover eyes to exclude light.

Comments: Treat same as Methyl Alcohol poisoning.

5. Fire-Fighting Measures

Flash Point: <69.8°F (21°C).

Extinguishing Medium: Carbon Dioxide (CO₂), Water Fog, Dry Chemical, Foam.

Unsuitable Extinguishing Medium: Water, (closed containers may be cooled).

Fire Hazards: Static electricity may accumulate and ignite vapors. Prevent a possible fire hazard by suitable means, such as bonding, grounding, inert gas purge, vapor dilution and the like. Vapors are heavier than air and can travel along the ground to remote ignition sources.

Unusual Fire Hazards: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Silicon Dioxide, Carbon Dioxide and traces of incompletely burned carbon compounds, Formaldehyde.

Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Heat exposure pressurizes closed containers. Evacuate the area in cases of overheating or fire.

Special Protective Actions for Fire-Fighters: 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.

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.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: 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. Put on appropriate personal protective equipment as recommended in Section 8.

Methods and Materials for Containment and Clean Up: Disposal of collected product, residues and clean up materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Remove possible ignition sources and if needed, use non-sparking tools and equipment. To prevent possible spontaneous combustion, store rags, mops, absorbent, etc.; used during clean up in appropriate containers covered with water. Mop, wipe or soak up with absorbent material and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as washing with mild, caustic detergents or solutions; or high-pressure steam for large areas. Observe any safety precautions applicable to the cleaning material used.

7. Handling and Storage

Precautions for Safe Handling: No special precautions provided as long as containers are undamaged. Product evolves flammable Methyl Alcohol when exposed to moisture or humid air. Use with adequate ventilation. Avoid eye contact. Avoid breathing vapors. Do not take internally. No eating, drinking, smoking, or hot work in work area.

Precautions for Safe Storage: Keep container closed and stored away from heat, sparks and open flame. Keep container closed and store away from water or moisture.

8. Exposure Controls/Personal Protection**Exposure Limits:**

Components	Exposure Limits
Methyl Alcohol	OSHA TWA 200 ppm, 260 mg/m ³ ; ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm
Alkoxysilanes	None established; guide TWA 50 ppm

Engineering Controls: Local ventilation recommended.

Individual Protection Measures:

Eye Protection: OSHA approved safety glasses with side shields at a minimum.

Skin Protection: Washing at mealtime and end of shift, no special protection is needed. Rubber or latex gloves are adequate for preventing skin irritation.

Respiratory Protection: Respiratory protection is not required provided adequate local exhaust ventilation is provided per recommended exposure guidelines. Avoid enclosed spaces for mixing or applying. When needed, use respiratory protection NIOSH ½ face, black cartridge, at a minimum.

Personal Protective Measures: Eye-wash station (bottle) should be within direct access of work area. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical State: Liquid.

Appearance: Clear.

Odor: Strong odor (methanol).

pH: Not applicable (non-aqueous).

Solubility in water: None.

Boiling Point: >95°F (>35°C).

Specific Gravity: @ 77°F (25°C): 0.95.

VOC Content: 3.52 lbs./gal, 428 g/liter (Components A, B & C mixed).

10. Stability and Reactivity

Reactivity: NA.

Chemical Stability: Stable.

Other:

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None.

Materials to Avoid: Concentrated nitric and sulfuric acids, strong oxidizers, aldehydes, halogens and halogen compounds.

11. Toxicological Information**Acute Health Effects:**

Inhalation: Vapor may irritate nose and throat. Overexposure may cause drowsiness.

Ingestion: Product contains small amounts of Methyl Alcohol which may cause nausea, vomiting, abdominal pain, flushing of the face, hypotension, weakness and loss of consciousness if large amount of product is swallowed.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

Prolonged/Repeated Exposure Effects:

Inhalation: Product generates Methyl Alcohol when exposed to moisture, which may cause blindness and damage to nervous system.

Ingestion: Product generates Methyl Alcohol, which may cause blindness and possibly death, if swallowed.

Skin Contact: May cause irritation; dermatitis.

Eye Contact: May cause irritation; blindness.

Signs and Symptoms of Exposure:

Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).

Special Hazards:

Carcinogens: None known.

Mutagens: None known.

Teratogens: None known.

Reproductive Toxins: None known.

Sensitizers: When heated to temperatures above 302°F (150°C.), in the presence of air, product can form formaldehyde vapors (formaldehyde is a potential cancer hazard; a known skin and respiratory sensitizer and an irritant to the eyes, nose, throat, skin).

12. Ecological Information

Persistence and Degradability: Readily degradable. Main organic decomposition product (n-Butanol) is readily biodegradable; No persistence potential (OECD Guideline 111).

Bio Accumulative Potential: No potential for bioaccumulation (OECD Guideline 111).

Mobility in Soil: High mobility in soil based on high water solubility and estimated Koc 3.471 L/kg of degradation product n-Butanol.

Results of PBT and vPvB Assessment:

PBT: The substance is not PBT.

vPvB: The substance is not vPvB.

13. Disposal Considerations

Disposal Methods: Disposal of collected product, residues and clean up materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Remove possible ignition sources and if needed, use non-sparking tools and equipment. To prevent possible spontaneous combustion, store rags, mops, absorbent, etc.; used during clean up in appropriate containers covered with water. Mop, wipe or soak up with absorbent material and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as washing with mild, caustic detergents or solutions, or high-pressure steam for large areas. Observe any safety precautions applicable to the cleaning material used.

RCRA Hazard Class (40 CFR 261):

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes.

Characteristic Waste:

Ignitable: D001.

State or local laws may impose additional regulatory requirements regarding disposal.

AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 8.

14. Transport Information

UN Number: UN1993.

UN Proper Shipping Name: FLAMMABLE LIQUID, n.o.s. (Methyltrimethoxysilane).

Transport Hazard Class: 3.



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SAFETY DATA SHEET-PART A

Packing Group: II.
Environmental Hazard Name: FLAMMABLE LIQUID, n.o.s.
DOT Information: (49 CFR 172.101).

15. Regulatory Information

EPA SARA Title III Chemical Listings:
Section 304 CERCLA Extremely Hazardous Substance: None

Section 304 CERCLA Hazardous Substances:

CAS Number	Wt%	Component Name	
67-56-1	2%	Methyl Alcohol	5000.00 lb. rq.

Section 312 Hazard Class:
Fire: Yes.
Sudden Release of Pressure: No.
Reactive: No.
Acute Health: Yes.
Chronic Health: Yes.

Section 313 Toxic Chemicals:

CAS Number	Wt%	Component Name
67-56-1	2%	Methyl Alcohol



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SAFETY DATA SHEET-PART B

1. Product Identifier

Product name: BALLISTIX NCO Three Part (Smooth Application) SATIN/PRIMER interior/exterior Floor Coating

Details of the Manufacturer/Supplier:

Meghan's Supply & Design LLC
11724 Main St. Ste 200, Fredericksburg, VA 22408
Phone: 540.840.9568

EMERGENCY CONTACT NUMBERS: INFOTRAC, INC.
US, Canada & Mexico +1-800-535-5053
International +1-352-323-3500

Product Description: Three Part (Smooth Application) SATIN/PRIMER interior/exterior Floor Coating

BALLISTIX NCO is a silicon-ceramic treatment designed to provide maximum protection when applied to interior/exterior flooring materials against staining, microbial growth, and UV exposure. It restores the surfaces to near original color and gloss and brings out the color in stone and masonry.

Suggested Uses:

Honed Concrete, Polished Concrete (with or without existing guard), Epoxy, Decorative Concrete, Vertical Surfaces, Brick, Stone, Stamped Concrete, Stained Concrete, Tile, Terrazzo, Stone, and Grout.

2. Hazard(s) Identification

HMIS RATING:

Health: 0.
Flammability: 0.
Reactivity: 0.

Classification of the Substance/Mixture: NON-FLAMMABLE LIQUID.

Signal Word: WARNING!

Hazard Statement: Product is non-hazardous. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Hazard Pictograms:



Precautionary Statements: Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection equipment as required. Use with adequate ventilation. Avoid eye contact. Avoid breathing vapors. Do not take internally.

Hazards Not Otherwise Classified: None known.

3. Composition/Information on Ingredients

Substance/Mixture: Proprietary Mixture.

CAS Number	Wt%	Components	Exposure Limits
64-19-7	<5%	Proprietary Acetic Mixture	TWA 10 ppm, (25 mg/m ³) ST 15 ppm



4. First-Aid Measures

Inhalation: Remove to fresh air.
Skin Contact: No first aid should be needed. Wash with soap and water.
Eye Contact: Immediately flush with water for 15 minutes.
Ingestion: N/A.

5. Fire-Fighting Measures

Flash Point: Not flammable.
Extinguishing Medium: Use medium suitable for the surrounding area.
Unsuitable Extinguishing Medium: None.
Unusual Fire Hazards: None.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: 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. Put on appropriate personal protective equipment as recommended in Section 8.

Methods and Materials for Containment and Clean Up: Not applicable; product is non-hazardous. Check local regulations for proper disposal of dilute organic acids.

7. Handling and Storage

Precautions for Safe Handling: No special precautions.
Precautions for Safe Storage: Do not freeze.

8. Exposure Controls/Personal Protection

Exposure Limits:

Components	Exposure Limits
Proprietary Acetic Mixture	TWA 10 ppm, (25 mg/m ³) ST 15 ppm

Engineering Controls: Local ventilation recommended.

Individual Protection Measures:

Eye Protection: OSHA approved safety glasses with side shields at a minimum.
Skin Protection: Washing at mealtime and end of shift, no special protection is needed. Rubber or latex gloves are adequate for preventing skin irritation.
Respiratory Protection: Respiratory protection is not required.

Personal Protective Measures: Eye-wash station (bottle) should be within direct access of work area. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical State: Liquid.

Appearance: Clear.

Odor: Mild odor of vinegar.

pH: 4-6.

Solubility in water: Complete.

Boiling Point: Not determined.

Specific Gravity: @ 77°F (25°C): Not determined.

VOC Content: 3.52 lbs./gal, 428 g/liter (Components A, B & C mixed).

10. Stability and Reactivity

Reactivity: NA.

Chemical Stability: Stable.

Other:

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None.

Materials to Avoid: None.

11. Toxicological Information

Acute Health Effects:

Inhalation: Vapor may irritate nose and throat.

Ingestion: None.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

Signs and Symptoms of Exposure:

Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).

Special Hazards:

Carcinogens: None known.

Mutagens: None known.

Teratogens: None known.

Reproductive Toxins: None known.

12. Ecological Information

Not Applicable.

13. Disposal Considerations

Disposal Methods: Not applicable; product is non-hazardous. Check local regulations for proper disposal of dilute organic acids.

RCRA Hazard Class (40 CFR 261): N/A (not regulated).

State or local laws may impose additional regulatory requirements regarding disposal.

AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 8.



14. Transport Information

UN Number: N/A (not regulated).
UN Proper Shipping Name: N/A (not regulated).
Transport Hazard Class: N/A (not regulated).
Packing Group: N/A (not regulated).
Environmental Hazard Name: N/A (not regulated).
DOT Information: (49 CFR 172.101).

15. Regulatory Information

EPA SARA Title III Chemical Listings:
Section 304 CERCLA Extremely Hazardous Substance: None.

Section 304 CERCLA Hazardous Substances: None.

SECTION 312 Hazard Class:
Fire: No.
Sudden Release of Pressure: No.
Reactive: No.
Acute Health: No.
Chronic Health: No.

Section 313 Toxic Chemicals: None.



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SAFETY DATA SHEET-PART C

1. Product Identifier

Product name: BALLISTIX NCO Three Part (Smooth Application) SATIN/PRIMER interior/exterior Floor Coating

Details of the Manufacturer/Supplier:

Meghan's Supply & Design LLC
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Suggested Uses:

Honed Concrete, Polished Concrete (with or without existing guard), Epoxy, Decorative Concrete, Vertical Surfaces, Brick, Stone, Stamped Concrete, Stained Concrete, Tile, Terrazzo, Stone, and Grout.

2. Hazard(s) Identification

HMS RATING:

Health: 1.
Flammability: 3.
Reactivity: 0.

Classification of the Substance/Mixture: FLAMMABLE LIQUID, n.o.s.

Signal Word: WARNING!

Hazard Statement: May cause skin irritation. Harmful if inhaled. May cause respiratory irritation. Will emit vapors of methanol if seal is broken and mixture is exposed to moisture.

Hazard Pictograms:



Precautionary Statements: Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection equipment as required. Use with adequate ventilation. Avoid eye contact. Avoid breathing vapors. Do not take internally.

Hazards Not Otherwise Classified: None known.

3. Composition/Information on Ingredients

Substance/Mixture: Proprietary Mixture.

CAS Number	Wt%	Components	Exposure Limits
67-56-1	<33%	Dimethyl Carbinol	TWA 400 ppm, STEL 500 ppm
001569-01-3	<66%	Propylene glycol n-propyl ether	None established; guide TWA 50 ppm
Proprietary Mixture	<5%	Alkoxysilanes	None established; guide TWA 50 ppm

4. First-Aid Measures

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Skin Contact: No first aid should be needed. Wash with soap and water.

Eye Contact: Immediately flush with water for 15 minutes.

Ingestion: Get medical attention. If conscious, induce vomiting. Lie down, keep warm and cover eyes to exclude light.

Comments: Treat same as Methyl Alcohol poisoning.

5. Fire-Fighting Measures

Flash Point: <75.0°F (23.89°C).

Extinguishing Medium: Carbon Dioxide (CO₂), Water Fog, Dry Chemical, Foam.

Unsuitable Extinguishing Medium: Water (closed containers may be cooled).

Fire Hazards: Static electricity may accumulate and ignite vapors. Prevent a possible fire hazard by suitable means, such as bonding, grounding, inert gas purge, vapor dilution and the like. Vapors are heavier than air and can travel along the ground to remote ignition sources.

Unusual Fire Hazards: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Silicon Dioxide, Carbon Dioxide and traces of incompletely burned carbon compounds, Formaldehyde.

Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Heat exposure pressurizes closed containers. Evacuate the area in cases of overheating or fire.

Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Evacuate the area in cases of overheating or fire.

Flammable Limits in Air: LEL: 2.0% UEL (200°F): 12.7% Volume percent.

Incompatibility: (Materials to avoid): heat, sparks, open flame.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: 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. Put on appropriate personal protective equipment as recommended in Section 8.

Methods and Materials for Containment and Clean Up: Review FIRE-FIGHTING MEASURES section before proceeding with cleanup. Disposal of collected product, residues and clean up materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Remove possible ignition sources and if needed, use non-sparking tools and equipment. To prevent possible spontaneous combustion, store rags, mops, absorbent, etc.; used during clean up in appropriate containers covered with water. Mop, wipe or soak up with absorbent material and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as washing with mild, caustic detergents or solutions; or high-pressure steam for large areas. Observe any safety precautions applicable to the cleaning material used.

7. Handling and Storage

Precautions for Safe Handling: No special precautions provided containers are undamaged. Use with adequate ventilation. Avoid eye contact. Avoid breathing vapors. Do not take internally. Do not eat, drink, or smoke in work area.

Precautions for Safe Storage: Keep container closed and away from heat, sparks and open flames. Keep container closed, dry, and cool.

8. Exposure Controls/Personal Protection

Exposure Limits:

Components	Exposure Limits
Dimethyl Carbinol	TWA 400 ppm, STEL 500 ppm
Propylene glycol n-propyl ether	None established; guide TWA 50 ppm
Alkoxysilanes	None established; guide TWA 50 ppm

Engineering Controls: Local ventilation recommended.

Individual Protection Measures:

Eye Protection: OSHA approved safety glasses with side shields at a minimum.

Skin Protection: Washing at mealtime and end of shift, no special protection is needed. Rubber or latex gloves are recommended for preventing skin irritation.

Respiratory Protection: Not required with adequate general ventilation. Do not exceed recommended exposure guidelines. Avoid enclosed spaces for mixing or applying. When needed, use respiratory protection NIOSH ½ face, black cartridge, minimum.

Personal Protective Measures: Eyewash station (bottle) should be in direct access of work area. Do not get in eyes or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical State: Liquid.

Appearance: Clear.

Odor: Strong Odor (rubbing alcohol).

pH: Not Applicable (non-aqueous).

Solubility in water: Complete.

Boiling Point: Miscible blend, approximately 181°F (83°C).

Specific Gravity @ 77°F (25°C): 0.85.

VOC Content: 3.52 lbs./gal, 428 g/liter (Components A, B & C mixed).

10. Stability and Reactivity

Reactivity: NA.

Chemical Stability: Stable.

Other:

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction; acetaldehyde, chlorine, ethylene oxide, acids, isocyanates.

11. Toxicological Information

Acute Effects:

Inhalation: May cause nonspecific discomfort such as nausea headache coughing and temporary nervous system depression.

Ingestion: Product contains small amounts of Methyl Alcohol which may cause nausea, vomiting, abdominal pain, flushing of the face, hypotension, weakness and loss of consciousness if large amount of product is swallowed.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.



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Prolonged/Repeated Exposure Effects:

Inhalation: Product generates Methyl Alcohol when exposed to moisture, which may cause blindness and damage to nervous system.

Ingestion: Product generates Methyl Alcohol, which may cause blindness and possibly death, if swallowed.

Skin Contact: May cause irritation; dermatitis.

Eye Contact: May cause irritation; blindness.

Signs and Symptoms of Exposure:

Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).

Special Hazards:

Carcinogens: None known.

Mutagens: None known.

Teratogens: None known.

Reproductive Toxins: None known.

Sensitizers: None known.

12. Ecological Information

Not Applicable.

13. Disposal Considerations

Disposal Methods: Review FIRE-FIGHTING MEASURES section before proceeding with disposal and/or cleanup. Use suitable protective wear and respiratory protection, such as full face respirator. Remove possible ignition sources. Prevent material from entering sewers, waterways, low areas, or floor drains. Soak up with sawdust, sand, oil dry, or other absorbent material. Sweep up or use a non-sparking shovel for clean-up. Place in appropriate container for disposal. Flush contaminated surface with water and remove contaminated water to an approved permitted treatment system or collect contaminated water for disposal. This material is an ICR (ignitable, corrosive, reactive) substance under CERCLA. Unless released material is cleaned up for reprocessing, recycling, or reuse, a release of 100 lbs. may trigger reporting requirements of CERCLA section 103.

RCRA Hazard Class (40 CFR 261):

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes.

Characteristic Waste:

Ignitable: D001.

State or local laws may impose additional regulatory requirements regarding disposal.

Uncleaned Packaging:

Recommendation: Disposal must be made according to official regulations.

AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 8.

14. Transport Information

UN NUMBER: UN1993.

UN Proper Shipping Name: FLAMMABLE LIQUID, n.o.s. (Propylene Glycol N-Propyl Ether).

Transport Hazard Class: 3.

Packing Group: III.

Environmental Hazard Name: FLAMMABLE LIQUID, n.o.s.

DOT Information: (49 CFR 172.101).



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15. Regulatory Information

EPA SARA Title III Chemical Listings:

Section 304 CERCLA Extremely Hazardous Substance: None.

Section 304 CERCLA Hazardous Substances:

CAS Number	Wt%	Component Name	
67-56-1	2%	Methyl Alcohol	5000.00 lb. rq.

Section 312 Hazard Class:

Fire: Yes.

Sudden Release of Pressure: No.

Reactive: No.

Acute Health: Yes.

Chronic Health: Yes.

Section 313 Toxic Chemicals:

CAS Number	Wt%	Component Name
67-56-1	2%	Methyl Alcohol