FARADAY STRUCTURES

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EMCoat Shielding Paint

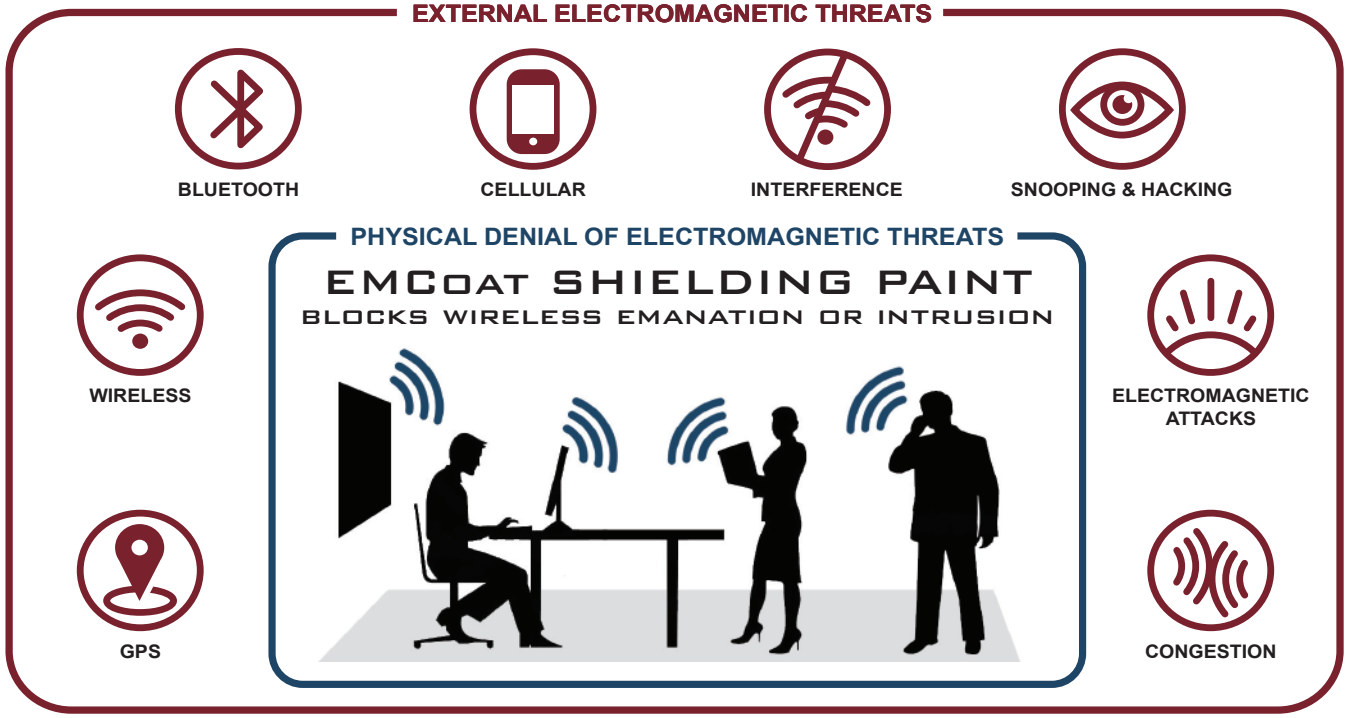
Conductive coating for electromagnetic shielding

EMCoat is an electrically conductive, multipurpose, patented coating product that shields secure facilities, wireless communications, and sensitive electronics from hacking, spectrum congestion, unwanted emanations, and damaging electromagnetic attacks. Fast drying, non-toxic, and highly durable, EMCoat is well suited for exterior and interior use and is applied with standard painting equipment. Provides a strong performance in broadband shielding, making it ideal for electromagnetic protection in secure facilities, data centers, meeting areas, operational environments, sensitive medical device rooms, or any area where signal control is a concern.

- Superior protective performance
- Excellent adhesion on a wide range of surfaces
- Water based, non-toxic, easy clean-up
- Fast drying, low odor
- Rated for indoor and outdoor use
- Saves time & money over metals/foils

PRODUCT	PART#	COVERAGE*	SHIELDING**	APPLICATION	DURABILITY***	LOCATIONS****
EMCoat S	4PA091	200	55+ dB	Sprayer	High	Indoor
EMCoat R	4PA081	165	55+ dB	Roll/Brush	High	Indoor
EMCoat HD	4PA079	185	55+ dB	Roll/Brush	Superior	Outdoor/Indoor

* Square feet per gallon, applied in two coats to achieve 0.6 ohm/square and 60+ dB ** 100 MHz to 18+ GHz, Plane Wave ***ASTM D3359, Crosshatch Adhesion
**** Tested and approved for use on drywall, concrete, masonry, metal, wood, vinyl, plastic, and fiber-reinforced composite. Substrate-compatible Primers are always recommended. Test an inconspicuous area or sample section if needed.



M-060: 06-13-24

Section 1: Identification

Product Name **EMCoat S Paint**
Product Code **4PA091**
Manufacturer **Faraday Structures**
830 E. South Flat Rd
Cleveland, UT 84518
www.faradaystructures.com
Telephone (General) **(435) 654-3683**

Section 2: Hazard(s) Identification

OSHA/HCS status: The materials is considered hazardous by the OSHA Hazard Communications Standard (29 CFR 1920.1200).

GHS Ratings: There are no GHS ratings that apply to this product at this time

Classification of the Substance or Mixture:
SKIN SENSITIZATION – Category 1

GHS Label Elements:
Hazard Pictogram:

Signal Word: Warning

Hazard Statement: May cause an allergic skin reaction.

Precautionary statements:
General: Read label before use. Keep out of reach of children. If medical advice is needed have product container or label near at hand.
Prevention: Use proper "personal protective equipment" (PPE); gloves, eye, face protection, protective clothing. Avoid breathing vapor.
Response: IF ON SKIN: Wash with plenty of soap and water. Wash any contaminated clothing before reuse. If skin irritation or rash occurs seek medical attention. If you feel unwell following exposure, seek medical attention.
Storage: Store in original container in a dry location at temperatures between 50 °F – 90 °F (10 °C – 33 °C).
Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.
Hazards not otherwise classified: None known.

Section 3: Composition/Information on Ingredients

Substance / mixture: Mixture.

Ingredient Name	Typical Composition	C.A.S. Number	EINECS Number
Nickel (Ni)	0 - 25 %	7440-02-0	2311114
Colloidal silicon dioxide	< 3 %	112945-52-5	-
3-Iodo-2-propynyl Butyl Carbamate	<0.3%	55406-53-6	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the manufacturer and in the concentrations applicable, are classified as hazardous to health and require reporting in this section.

Section 4: First-Aid Measures

EYES: Immediately flush eyes with lukewarm water, including under eyelids, for at least 15 minutes. Seek medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Qualified personnel may give oxygen if breathing is difficult. Seek medical attention.

SKIN: Remove contaminated clothing, wash affected area with soap and warm water for at least 10 minutes. To avoid further irritation, do not rub or scratch the irritated areas. Seek medical attention if symptoms develop or persist.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

Most important symptoms / effects, acute, and delayed

Potential acute health effects:

Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: May cause an allergic skin reaction.
Ingestion: No known significant effects or critical hazards.

Over-exposure signs / symptoms

Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: Adverse symptoms may include irritation or redness.
Ingestion: No specific data.

Section 5: Fire-Fighting Measures

EXTINGUISHING MEDIA: Use extinguishing agent suitable for surrounding material and type of fire. Foam, CO2, and dry chemical are recommended.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE MATERIAL: May emit carbon oxides and / or toxic metal oxide fumes.

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.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid contact with skin, eyes, or clothing. Wear appropriate NIOSH-approved respirators if collection and disposal of dust is likely. Clean up material and put into a suitable container and dispose in accordance with applicable regulations. Avoid breathing vapor or mist.

SPILL / LEAK PROCEDURES: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

SMALL SPILLS: Contain spillage if without risk, then collect with non-combustible absorbent material. Put contaminated materials into a metal container and do not seal. If risk of fire is suspected cover collected materials with a layer of water. Prevent entry of spilled material into sewers or drains. Contaminated absorbent material must be disposed of in the same manner as the liquid itself.

LARGE SPILLS: Contain spillage if without risk, then collect with non-combustible absorbent material. Put contaminated materials into a metal container and do not seal. If risk of fire is suspected cover collected materials with a layer of water. Contact emergency services if danger is present. Prevent entry of spilled material into sewers or drains. Contaminated absorbent material must be disposed of in the same manner as the liquid itself.

Section 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

PROTECTIVE MEASURES: Wear appropriate personal protective equipment (see Section 8). Avoid exposure to the liquid material during pregnancy. Do not allow contact with eyes or mucous membranes. The dry form of this material contains fibers and is electrically conductive. User generated airborne particulates are electrically conductive and may create electrical short circuits that could result in damage to and malfunction of electrical equipment and/or personal injury.

Store in in the original supplied container, with the lid firmly closed, when not in use. Do not store near acids. Store at temperatures between 50 °F – 90 °F (10 °C – 33 °C).

If ventilation alone cannot control exposure to vapor and dust, use respirators approved for the purpose.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, or processed. Workers should wash hands and face before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Section 8: Exposure Controls/Personal Protection

CONTROL PARAMETERS

Occupational exposure limits (OSHA United States)

Ingredient Name	Exposure Limits
Colloidal Silicon Dioxide	NIOSH – REL – TWA 6mg/m^3 10 hours
3-iodo-2-propynyl butylcarbamate	None

Appropriate Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation

EYE/FACE PROTECTION: Avoid eye contact. Wear coveralls, goggles, as necessary.

SKIN PROTECTION: Wear chemical resistant, impervious, disposable gloves to protect hands. Wear protective clothing such as a loose fitting, long sleeved, shirt that covers the arms and neck, long pants, and shoes that cover the entire foot.

RESPIRATORY PROTECTION: If sufficient vapor or fumes are generated during application, use a NIOSH approved organic vapor respirator.

VENTILATION: Use local exhaust sufficient to control vapor, particulates, or dust, to below acceptable exposure limits. If exhaust ventilation is not available or is inadequate, use a NIOSH approved respirator, as appropriate. Discharge from the ventilation system should comply with applicable air pollution control regulations. Electrical systems, in areas where the product is handled, must be suitable for operation in an environment containing electrically conductive dust, fibers or particulate.

GENERAL HYGIENE RECOMMENDATIONS: Before eating, drinking, smoking, or using toilet facilities, wash face and hands thoroughly with soap and water. Use vacuum equipment to remove dry product, dust, fibers, or particulate from clothing and work areas. Use of compressed air is not recommended.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Medium gray
Odor:	Not available
pH:	~ 8
Viscosity:	N/A
Boiling point	> 100 °C (> 212 °F)
Flash Point	Not applicable
Evaporation Rate:	Not available
Flammability:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Lower explosive limit:	Unknown
Upper explosive limit:	Unknown
Vapor pressure:	Unknown
Vapor density:	>1
Relative density:	> 1.05
Specific gravity:	> 1.2 g/cm^3 as liquid
Solubility	Liquid form is soluble in water
Partition coefficient:	n/a
Viscosity:	not determined
Percent Solids:	~ 50% by volume

Section 10: Stability and Reactivity

REACTIVITY: This product is stable.

CHEMICAL STABILITY: This product is stable, however, the nickel present in the formula may react vigorously with acids to liberate hydrogen which can form explosive mixtures with air.

POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, no hazardous reactions are known.

CONDITIONS TO AVOID: Very high temperatures.

HAZARDOUS DECOMPOSITION: Avoid inhalation of decomposition products.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11: Toxicological Information

Nickel LD50 ORAL RAT >9000 mg/kg

Evidence for the association of nickel compound exposures and cancer risk comes mainly from workers in now obsolete nickel refining operations where very high concentrations of airborne nickel, mostly present as oxidic or sub-sulphidic species at up to 100 mg/m^3 or more, were associated with excess nasal and lung cancers. The inhalation of nickel powder has not resulted in an increased incidence of malignant lung tumors in rodents. Repeated intratracheal instillation of nickel powder produced an increased incidence of malignant lung tumors in rats. Repeated intratracheal instillation of nickel powder did not produce an increased incidence of malignant lung tumors in hamsters when administered at the maximum tolerated dose. Single intratracheal instillations of nickel powder in hamsters at doses near the LD50 produced an increased incidence of fibro-sarcomas, mesotheliomas and rhabdomyosarcomas. Inhalation of nickel powder at concentrations 15 times the TLV irritated the respiratory tract in rodents.

Animal experiments indicate that soluble nickel ingestion causes adverse effects on fetal development at a threshold oral exposure of 2.2 mg/ Ni/kg/day by pregnant rats. Data are insufficient to determine if this effect occurs in humans and no regulatory agency has classified soluble forms of nickel as reproductive risks for humans. No soluble nickel is found in this product as formulated.

INFORMATION ON TOXICOLOGY EFFECTS:

ACUTE TOXICITY:

Product / Ingredient	Result	Species	Dose	Exposure
Colloidal Silicon Dioxide	LD50 Oral	Rat	3160 mg/kg	
3-iodo-2-propynyl butylcarbamate	LD50 Oral	Rat	1470 mg/kg	

IRRITATION / CORROSSION:

Conclusion / Summary

Skin There are no data available on the mixture itself.

Eyes There are no data available on the mixture itself.

Respiratory There are no data available on the mixture itself.

SENSITIZATION:

Conclusion / Summary

Skin There are no data available on the mixture itself.

Respiratory There are no data available on the mixture itself.

MUTAGENICITY:

Conclusion / Summary There are no data available on the mixture itself.

CARCINOGENCITY:

Classification

Product / Ingredient	OSHA	IARC	NTP
Colloidal Silicon Dioxide	-	3	-

REPRODUCTIVE TOXICITY:

Conclusion / Summary There are no data available on the mixture itself.

TERATOGENCITY:

Conclusion / Summary There are no data available on the mixture itself.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Not available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):

Product / Ingredient	Category	Route of Exposure	Target Organs
3-iodo-2-propynyl butylcarbamate	Category 1	Not determined	Larynx

ASPIRATION HAZARD: Not available.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:

POTENTIAL ACUTE HEALTH AFFECTS:

Eye Contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin Contact: May cause an allergic skin reaction.
Ingestion: No known significant effects or critical hazards.

OVER EXPOSURE SIGNS / SYMPTOMS:

Eye Contact: No specific data.
Inhalation: No specific data.
Skin Contact: May cause an allergic skin reaction, rash, or redness.
Ingestion: No specific data.

DELAYED OR IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE

CONCLUSION / SUMMARY: There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

SHORT TERM EXPOSURE:

Potential Immediate Effects: There are no data on the mixture itself.
Potential Long Term Effects: There are not data on the mixture itself.

LONG TERM EXPOSURE:

Potential Immediate Effects: There are no data on the mixture itself.
Potential Long Term Effects: There are not data on the mixture itself.

POTENTIAL CHRONIC HEALTH EFFECTS:

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Reproductive Toxicity: No known significant effects or critical hazards.

Section 12: Ecological Information

TOXICITY:

Product / Ingredient	Result	Species	Exposure
3-iodo-2-propynyl butylcarbamate	Acute LC50 500 ppb fresh water	Crustaceans - Hyalella azteca	48 hours
	Acute LC50 40 ppb fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 67 ug/l fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 8.4 ppb	Fish - Pimephales promelas	35 days

PERSISTENCE AND DEGRADABILITY:

Based on formula knowledge no persistence in the environment is expected. No degradation products are known to be toxic in the environment.

BIOACCUMULATIVE POTENTIAL:

No data available on bioaccumulative potential. Based on formula knowledge non is expected.

MOBILITY IN SOIL:

Not available.

Section 13: Disposal Considerations

Material for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

Nickel-containing waste can be collected to recover nickel values. Should nickel recovery be implemented, follow EPA and local regulations.

The generation of waste should be minimized or avoided wherever possible.

Section 14: Transport Information

	DOT	IMDG	IATA
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	-	-	-
Transport Hazard Class	-	-	-
Packing Group	-	-	-
Environmental Hazards	No	No	No

SPECIAL PRECAUTIONS FOR USER: Always transport in sealed, upright, containers.

Section 15: Regulatory Information

TSCA Listed: Nickel is listed on the TSCA inventory. Partially fluorinated alcohol, reaction products are listed.

HMIS Ratings: **Health: 3** **Flammability: 0** **Physical: 0**

NFPA Ratings: **Health: 3** **Flammability: 0** **Instability: 0**

SARA Title III: This product contains metallic nickel which is subject to the reporting requirements of SARA Title III Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

SARA 311/312:
Classification: Not applicable

California Prop. 65: This product contains chemicals knows to the state of California to cause cancer and birth defects or other reproductive harm. As indicated in Title 22 of the California Code of Regulations Section 12707(b)(5), for purposes of Proposition 65, nickel and nickel compounds present no significant risk of cancer by the route of ingestion.

Refer to the Composition section (Section 3) of this SDS for appropriate CAS numbers and percent by weight.

Section 16: Other Information

Explanation and Disclaimer: Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these laws such as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. Any exposure can only be understood within the entire context of its occurrence, which includes such factors as the substance's characteristics as defined in the SDS, amount and duration of exposures, other chemicals present and preexisting individual differences in response to the exposure.

The data provided in this SDS is based on the information received from our raw material suppliers and other sources believed to be reliable. We are supplying you this data solely in compliance with the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200 and other Federal and state laws as described in Section 15: Regulatory Information. This SDS and the information in it are not to be used for purposes other than compliance with the Federal OSHA Hazard Communication Standard.

FARADAY STRUCTURES BELIEVES THAT THE INFORMATION IN THIS SAFETY DATA SHEET IS ACCURATE. HOWEVER, CONDUCTIVE COMPOSITES COMPANY DOES NOT IN ANY WAY WARRANT (EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) THE DATA CONTAINED OR THE PRODUCT DESCRIBED IN THIS SDS. LIABILITY, IF ANY, FOR USE OF THIS PRODUCT IS LIMITED TO THE TERMS CONTAINED IN OUR SALE TERMS AND CONDITIONS. ADDITIONALLY, WE DO NOT WARRANT THAT THE PRODUCT WILL NOT INFRINGE ANY PATENT OR OTHER PROPRIETARY OR PROPERTY RIGHTS OF OTHERS.

Revision History

Revision	Effective Date	Summary of Changes
0	5/5/2024	Initial version

Section 1: Identification

Product Name **EMCoat R Paint**
Product Code **4PA081**
Manufacturer **Faraday Structures**
830 E. South Flat Rd
Cleveland, UT 84518
www.faradaystructures.com
Telephone (General) **(435) 654-3683**

Section 2: Hazard(s) Identification

GHS Ratings: There are no GHS ratings that apply to this product at this time.

Classification of the Substance or Mixture:
There is no classification of this mixture.

GHS Label Elements:
Hazard Pictogram: There is no applicable Hazard Pictogram.

Signal Word: There is no applicable Signal Word.

Hazard Statement: There are no GHS hazards that apply to this product at this time.

Precautionary statements:
General: Read label before use.
Prevention: Use proper "personal protective equipment" (PPE); gloves, eye and face protection, protective clothing.
Response: If you feel unwell following exposure, seek medical attention.
Storage: Store in dry location at temperatures between 50 °F – 90 °F (10 °C – 33 °C).
Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.
Supplemental label: Less than 1% of the mixture consists of ingredient(s) of unknown acute toxicity.

Section 3: Composition/Information on Ingredients

Substance / mixture: Mixture.

Ingredient Name	Typical Composition	C.A.S. Number	EINECS Number
Nickel (Ni)	0 - 25 %	7440-02-0	2311114
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	0.5 – 2.5%	25265-77-4	
Carbon Black	< 1.0	1333-86-4	

Based on product and formula knowledge of the manufacturer there are no additional ingredients present which are classified as hazardous to health and thereby are not required to be reported in this section.

Section 4: First-Aid Measures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Qualified personnel may give oxygen if breathing is difficult. Seek medical attention.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing, wash affected area with soap and warm water. To avoid further irritation, do not rub or scratch the irritated areas. Seek medical attention if symptoms develop or persist.

EYES: Immediately flush eyes with lukewarm water, including under eyelids, for at least 15 minutes. Seek medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: May cause skin irritation. See section 11 for more information.

Section 5: Fire-Fighting Measures

EXTINGUISHING MEDIA: Use extinguishing agent suitable for surrounding material and type of fire.

UNSUITABLE EXTINGUISHING MEDIA: No information available.

SPECIFIC HAZARDS ARISING FROM THE MATERIAL: May emit carbon oxides and / or toxic metal oxide fumes under fire conditions.

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid contact with skin, eyes, or clothing. Wear appropriate NIOSH-approved respirators if collection and disposal of dust is likely. Clean up material and put into a suitable container and dispose in accordance with applicable regulations.

SPILL / LEAK PROCEDURES: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

SMALL SPILLS: Contain spillage, then collect with non combustible absorbent material. Put contaminated materials into a metal container and do not seal. If risk of fire is suspected cover collected materials with a layer of water.

LARGE SPILLS: Contain spillage, then collect with non combustible absorbent material. Put contaminated materials into a metal container and do not seal. If risk of fire is suspected cover collected materials with a layer of water. Contact emergency services if danger is present.

Section 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

PROTECTIVE MEASURES: Wear appropriate personal protective equipment (see Section 8). Avoid exposure to the liquid material during pregnancy. Do not allow contact with eyes or mucous membranes. The dry form of this material contains fibers and is electrically conductive. User generated airborne particulates are electrically conductive and may create electrical short circuits that could result in damage to and malfunction of electrical equipment and/or personal injury.

Store in in the original supplied container, with the lid firmly closed, when not in use. Do not store near acids. Store at temperatures between 50 °F – 90 °F (10 °C – 33 °C).

If ventilation alone cannot control exposure to vapor and dust, use respirators approved for the purpose.

Section 8: Exposure Controls/Personal Protection

NO REPORTABLE QUANTITIES OF HAZARDOUS MATERIALS PRESENT

Chemical Name	CAS No.	Weight % < Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Nickel	7440-02-0	25.0	1.5mg/m^3	N.E.	1.0 mg/m^3	N.E.
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	25265-77-4	5.0	N.E.	N.E.	N.E.	N.E.
Carbon Black	1333-86-4	1.0	3mg/m^3	N.E.	3.5 mg/m^3	N.E.

EYE/FACE PROTECTION: Avoid eye contact. Wear coverall goggles, as necessary.

SKIN PROTECTION: Wear chemical resistant, impervious, disposable gloves to protect hands. Wear protective clothing such as a loose fitting long sleeved shirt that covers the arms and neck, long pants, and shoes that cover the entire foot.

RESPIRATORY PROTECTION: Not ordinarily required. If sufficient vapor or fumes are generated during application, use a NIOSH approved organic vapor respirator or a nuisance dust mask.

VENTILATION: Use local exhaust sufficient to control vapor, particulates, or dust, to below acceptable exposure limits. If exhaust ventilation is not available or is inadequate, use a NIOSH approved respirator, as appropriate. Discharge from the ventilation system should comply with applicable air pollution control regulations. Electrical systems, in areas where the product is handled, must be suitable for operation in an environment containing electrically conductive dust, fibers or particulate.

GENERAL HYGIENE RECOMMENDATIONS: Before eating, drinking, smoking, or using toilet facilities, wash face and hands thoroughly with soap and water. Use vacuum equipment to remove dry product, dust, fibers, or particulate from clothing and work areas. Use of compressed air is not recommended.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Medium gray
Odor:	Mild Solvent
pH:	8.5 – 9.0
Viscosity:	N/A
Boiling point	> 100 °C
Flash Point	> 94 °C
Evaporation Rate:	Slower than ether
Flammability:	Does not support combustion
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Lower explosive limit:	Unknown
Upper explosive limit:	Unknown
Vapor pressure:	N/A
Vapor density:	>1
Relative density:	n/a (dry condition)

Specific gravity:	> 1.3 g/cm^3
Solubility	Liquid form is soluble in water
Partition coefficient:	n/a
Percent Solids:	~ 50% by volume

Section 10: Stability and Reactivity

REACTIVITY: This product is stable.

CHEMICAL STABILITY: This product is stable, however, the nickel present in the formula may react vigorously with acids to liberate hydrogen which can form explosive mixtures with air.

POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, no hazardous reactions are known.

CONDITIONS TO AVOID: High temperatures.

HAZARDOUS DECOMPOSITION: Occurs at high temperatures. Avoid inhalation of decomposition products.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11: Toxicological Information

Nickel LD50 ORAL RAT >9000 mg/kg

Evidence for the association of nickel compound exposures and cancer risk comes mainly from workers in now obsolete nickel refining operations where very high concentrations of airborne nickel, mostly present as oxidic or sub-sulphidic species at up to 100 mg/m^3 or more, were associated with excess nasal and lung cancers. The inhalation of nickel powder has not resulted in an increased incidence of malignant lung tumors in rodents. Repeated intratracheal instillation of nickel powder produced an increased incidence of malignant lung tumors in rats. Repeated intratracheal instillation of nickel powder did not produce an increased incidence of malignant lung tumors in hamsters when administered at the maximum tolerated dose. Single intratracheal instillations of nickel powder in hamsters at doses near the LD50 produced an increased incidence of fibro-sarcomas, mesotheliomas and rhabdomyosarcomas. Inhalation of nickel powder at concentrations 15 times the TLV irritated the respiratory tract in rodents.

Animal experiments indicate that soluble nickel ingestion causes adverse effects on fetal development at a threshold oral exposure of 2.2 mg/ Ni/kg/day by pregnant rats. Data are insufficient to determine if this effect occurs in humans and no regulatory agency has classified soluble forms of nickel as reproductive risks for humans. No soluble nickel is found in this product as formulated.

Contains carbon black. Carbon black is listed as a Group 2B – “possibly carcinogenic to humans” by IARC and is proposed to be listed as A4 “not classified as a human carcinogen” by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during application of this product. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surface or spray mist and the actual concentration of carbon black in the final formula.

INFORMATION ON TOXICOLOGY EFFECTS:

ACUTE TOXICITY:

(The acute effects of this product have not been tested. Data on individual components are listed below.)

Product / Ingredient	CAS No.	Oral LD50 (rat)	Dermal LD50 (rat)	Vapor LC50 (rat)
2,2,4-Trimethyl-1,3-Pentanediol Monoisobutyrate	25265-77-4	3200 mg/kg	> 15000 mg/kg	>3.55 mg/L
Carbon Black	1333-86-4	> 15400 mg/kg	N.E.	N.E.

Section 12: Ecological Information

No ecotoxicity data was found for this product.

Section 13: Disposal Considerations

Material for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

Nickel-containing waste can be collected to recover nickel values. Should nickel recovery be implemented, follow EPA and local regulations.

The generation of waste should be minimized or avoided wherever possible.

Section 14: Transport Information

	USDOT	IMDG	IATA
UN Number	N/A	N/A	N/A
UN Proper Shipping Name	Not Regulated	Not Regulated	Not Regulated
Transport Hazard Class	N/A	N/A	N/A
Packing Group	N/A	N/A	N/A
Limited Quantity	No	No	no

Section 15: Regulatory Information

TSCA Listed: Nickel is listed on the TSCA inventory. Partially fluorinated alcohol, reaction products are listed.

HMIS Ratings: **Health: 2** **Flammability: 1** **Physical: 0**

NFPA Ratings: **Health: 2** **Flammability: 0** **Instability: 0**

SARA Title III: This product contains metallic nickel which is subject to the reporting requirements of SARA Title III Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

SARA 311/312: Not applicable

SARA Section 313: No SARA 313 components exist in this product.

California Prop. 65: This product contains chemicals knows to the state of California to cause cancer and birth defects or other reproductive harm. As indicated in Title 22 of the California Code of Regulations Section 12707(b)(5), for purposes of Proposition 65, nickel and nickel compounds present no significant risk of cancer by the route of ingestion. Refer to the Composition section (Section 3) of this SDS for appropriate CAS numbers and percent by weight.

Section 16: Other Information

Explanation and Disclaimer: Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these laws such as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. Any exposure can only be understood within the entire context of its occurrence, which includes such factors as the substance's characteristics as defined in the SDS, amount and duration of exposures, other chemicals present and preexisting individual differences in response to the exposure.

The data provided in this SDS is based on the information received from our raw material suppliers and other sources believed to be reliable. We are supplying you this data solely in compliance with the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200 and other Federal and state laws as described in Section 15: Regulatory Information. This SDS and the information in it are not to be used for purposes other than compliance with the Federal OSHA Hazard Communication Standard.

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Revision History		
Revision	Effective Date	Summary of Changes
0	4/10/2025	Initial version

Section 1: Identification

Product Name	**EMCoat HD Paint**
Product Code	**4PA079**
Manufacturer	**Faraday Structures** **830 E. South Flat Rd** **Cleveland, UT 84518** **www.faradaystructures.com**
Telephone (General)	**(435) 654-3683**

Section 2: Hazard(s) Identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communications Standard (29 CFR 1910.1200).

Classification of the Substance or Mixture: Carcinogenicity – Category 2
Toxic to Reproduction – Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: <25% oral, < 30% dermal, < 25% inhalation.

GHS Label Elements:
Hazard Pictogram:

Signal Word: Warning

-

Hazard Statement: Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

Precautionary statements:

General:	Read label before use.
Prevention:	Use proper “personal protective equipment” (PPE); gloves, eye and face protection, protective clothing.
Response:	If you feel unwell following exposure, seek medical attention. Photosensitive agents present - In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash, or blistering occurs after contact.
Storage:	Store in dry location at temperatures between 50 °F – 90 °F (10 °C – 33 °C).
Disposal:	Dispose of contents and container in accordance with all local, regional, national, and international regulations.
Supplemental label:	Contains isothiazolinones. May cause allergic reaction. Emits toxic fumes when heated

Hazards not otherwise classified: None known.

Section 3: Composition/Information on Ingredients

Substance / mixture: Mixture.

Ingredient Name	Typical Composition	C.A.S. Number
Nickel (Ni)	0 - 25 %	7440-02-0
Kaolin	3.0 – 10.0%	1332-58-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	< 1.0%	41556-26-7
Benzophenone	< 1.0%	119-61-9
TiO_2 – Titanium Dioxide	< 1.0%	13463-67-7

Based on product and formula knowledge of the manufacturer there are no additional ingredients present which are classified as hazardous to health and thereby are not required to be reported in this section.

Section 4: First-Aid Measures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Qualified personnel may give oxygen if breathing is difficult. Seek medical attention.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing, wash affected area with soap and warm water. To avoid further irritation, do not rub or scratch the irritated areas. Seek medical attention if symptoms develop or persist.

EYES: Immediately flush eyes with lukewarm water, including under eyelids, for at least 15 minutes. Seek medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: May cause skin irritation. See section 11 for more information.

Section 5: Fire-Fighting Measures

EXTINGUISHING MEDIA: Use extinguishing agent suitable for surrounding material and type of fire

UNSUITABLE EXTINGUISHING MEDIA: No information available

SPECIFIC HAZARDS ARISING FROM THE MATERIAL: May emit carbon oxides and / or toxic metal oxide fumes under fire conditions

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Avoid contact with skin, eyes, or clothing. Wear appropriate NIOSH-approved respirators if collection and disposal of dust is likely. Clean up material and put into a suitable container and dispose in accordance with applicable regulations.

SPILL / LEAK PROCEDURES: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

SMALL SPILLS: Contain spillage, then collect with non combustible absorbent material. Put contaminated materials into a metal container and do not seal. If risk of fire is suspected cover collected materials with a layer of water.

LARGE SPILLS: Contain spillage, then collect with non combustible absorbent material. Put contaminated materials into a metal container and do not seal. If risk of fire is suspected cover collected materials with a layer of water. Contact emergency services if danger is present.

Section 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

PROTECTIVE MEASURES: Wear appropriate personal protective equipment (see Section 8). Avoid exposure to the liquid material during pregnancy. Do not allow contact with eyes or mucous membranes. The dry form of this material contains fibers and is electrically conductive. User generated airborne particulates are electrically conductive and may create electrical short circuits that could result in damage to and malfunction of electrical equipment and/or personal injury.

Store in in the original supplied container, with the lid firmly closed, when not in use. Do not store near acids. Store at temperatures between 50 °F – 90 °F (10 °C – 33 °C).

If ventilation alone cannot control exposure to vapor and dust, use respirators approved for the purpose.

Section 8: Exposure Controls/Personal Protection

Chemical Name	CAS No.	Weight % < Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Nickel	7440-02-0	25.0	1.5mg/m^3	N.E.	1.0mg/m^3	N.E.
Kaolin	1332-58-7	10.0	2.0mg/m^3	N.E.	15mg/m^3	N.E.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	1.0	N.E.	N.E.	N.E.	N.E.
Benzophenone	119-61-9	1.0	N.E.	N.E.	N.E.	N.E.
TiO_2	13463-67-7	1.0	2.5mg/m^3	N.E.	15mg/m^3	N.E.

EYE/FACE PROTECTION: Avoid eye contact. Wear coverall goggles, as necessary.

SKIN PROTECTION: Wear chemical resistant, impervious, disposable gloves to protect hands. Wear protective clothing such as a loose fitting long sleeved shirt that covers the arms and neck, long pants, and shoes that cover the entire foot.

RESPIRATORY PROTECTION: Not ordinarily required. If sufficient vapor or fumes are generated during application, use a NIOSH approved organic vapor respirator or a nuisance dust mask. 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

VENTILATION: Use local exhaust sufficient to control vapor, particulates, or dust, to below acceptable exposure limits. If exhaust ventilation is not available or is inadequate, use a NIOSH approved respirator, as appropriate. Discharge from the ventilation system should comply with applicable air pollution control regulations. Electrical systems, in areas where the product is

handled, must be suitable for operation in an environment containing electrically conductive dust, fibers or particulate.

GENERAL HYGIENE RECOMMENDATIONS: Before eating, drinking, smoking, or using toilet facilities, wash face and hands thoroughly with soap and water. Use vacuum equipment to remove dry product, dust, fibers, or particulate from clothing and work areas. Use of compressed air is not recommended.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Medium gray
Odor:	Mild alcohol
pH:	8.5 – 9.0
Viscosity:	N/A
Boiling point	> 100 °C
Flash Point	N/A
Evaporation Rate:	0.05 (butyl acetate = 1)
Flammability:	Does not support combustion
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Lower explosive limit:	Unknown
Upper explosive limit:	Unknown
Vapor pressure:	3.3 kPa (25 mm Hg)
Vapor density:	>1
Relative density:	n/a (dry condition)
Specific gravity:	> 1.3 g/cm^3
Solubility	Liquid form is soluble in water
Partition coefficient:	n/a
Percent Solids:	> 50% by volume

Section 10: Stability and Reactivity

REACTIVITY: This product is stable

CHEMICAL STABILITY: This product is stable, however, the nickel present in the formula may react vigorously with acids to liberate hydrogen which can form explosive mixtures with air

POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, no hazardous reactions are known.

CONDITIONS TO AVOID: High temperatures

HAZARDOUS DECOMPOSITION: Occurs at high temperatures. Avoid inhalation of decomposition products

HAZARDOUS POLYMERIZATION: Will not occur

Section 11: Toxicological Information

Evidence for the association of nickel compound exposures and cancer risk comes mainly from workers in now obsolete nickel refining operations where very high concentrations of airborne nickel, mostly present as oxidic or sub-sulphidic species at up to 100 mg/m^3 or more, were associated with excess nasal and lung cancers. The inhalation of nickel powder has not resulted in an increased incidence of malignant lung tumors in rodents.

Repeated intratracheal instillation of nickel powder produced an increased incidence of malignant lung tumors in rats. Repeated intratracheal instillation of nickel powder did not produce an increased incidence of malignant lung tumors in hamsters when administered at the maximum tolerated dose. Single intratracheal instillations of nickel powder in hamsters at doses near the LD50 produced an increased incidence of fibro-sarcomas, mesotheliomas and rhabdomyosarcomas. Inhalation of nickel powder at concentrations 15 times the TLV irritated the respiratory tract in rodents.

Animal experiments indicate that soluble nickel ingestion causes adverse effects on fetal development at a threshold oral exposure of 2.2 mg/ Ni/kg/day by pregnant rats. Data are insufficient to determine if this effect occurs in humans and no regulatory agency has classified soluble forms of nickel as reproductive risks for humans. No soluble nickel is found in this product as formulated.

INFORMATION ON TOXICOLOGY EFFECTS:

Classification:

Benzophenone: IARC = 2B
Titanium Dioxide (TiO_2): IARC = 2B

Reproductive Toxicity: No data available on mixture.

Teratogenicity: No data available on mixture.

Specific target organ toxicity (single exposure): Not available.

Specific target organ toxicity (repeated exposure):
Benzophenone: Category 2. Route of exposure = oral. Target organs = kidneys, liver.

Target organs: Contains material which causes damage to the following organs: eyes.
Contains material which may cause damage to the following organs: lungs, stomach.

Acute Toxicity Estimates:

Ingredient	Oral (mg/kg)	Dermal (mg/kg)	Inhalation – gas (ppm)	Inhalation – vapor	Inhalation – dust and mist (mg/l)
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
benzophenone	N/A	3535	N/A	N/A	N/A

Section 12: Ecological Information

Toxicity:

Ingredient	Result	Species	Exposure
titanium dioxide (TiO_2)	Acute LC50>100mg/l	Daphnia – Daphnia magna	48 hrs

Persistence and Degradability: Not available

Bioaccumulative Potential:

Ingredient	$LogP_{ow}$	BCF	Potential
benzophenone	3.18	12.02	Low

Mobility in Soil:
Soil/water partition coefficient: Not available

Section 13: Disposal Considerations

Material for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S., Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

Nickel-containing waste can be collected to recover nickel values. Should nickel recovery be implemented, follow EPA and local regulations.

The generation of waste should be minimized or avoided wherever possible.

Section 14: Transport Information

	USDOT	IMDG	IATA
UN Number	N/A	UN3082	UN3082
UN Proper Shipping Name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate)
Transport Hazard Class	-	9	9
Packing Group	-	III	III
Environmental hazards	No	Yes	Yes
Marine pollutant substances	N/A	(bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate)	N/A

Section 15: Regulatory Information

TSCA Listed: Nickel is listed on the TSCA inventory. Partially fluorinated alcohol, reaction products are listed.

HMIS Ratings: **Health: 2** **Flammability: 1** **Physical: 0**

NFPA Ratings: **Health: 2** **Flammability: 0** **Instability: 0**

SARA Title III: This product contains metallic nickel which is subject to the reporting requirements of SARA Title III Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

SARA 311/312: Carcinogenicity – Category 2
Toxic to Reproduction – Category 2

Composition Information on Ingredients

Ingredient	%	Classification
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	< 1.0	Skin sensitization – Category 1B Toxic to reproduction – Category 2
benzophenone	< 1.0	Combustible dust Carcinogenicity – Category 2 Specific target organ toxicity (repeated exposure) – Category 2
Titanium dioxide (TiO_2)	<1.0	Carcinogenicity – Category 2

SARA Section 313: No SARA 313 components exist in this product.

California Prop. 65: This product contains chemicals knows to the state of California to cause cancer and birth defects or other reproductive harm. As indicated in Title 22 of the California Code of Regulations Section 12707(b)(5), for purposes of Proposition 65, nickel and nickel compounds present no significant risk of cancer by the route of ingestion. Refer to the Composition section (Section 3) of this SDS for appropriate CAS numbers and percent by weight.

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Revision History		
Revision	Effective Date	Summary of Changes
0	4/10/2025	Initial version