



Health	3
Fire	3
Reactivity	1
PPE	G



SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION		
Product Name: Covaron InfernoWare™ Shield SN05	Supplier Information:	1-734-315-4221
Application: Thermosetting amorphous ceramic compound	Covaron Advanced Materials	
CAS#: <i>Not available</i>	4401 Varsity drive, suite A	
RTECS: <i>Not available</i>	Ann Arbor, MI 48108	
Document Revision: 1.3	CHEMTREC (24-hour):	1-800-424-9300
Document Revision Date: 2024 June 19	Poison Control (24-hour):	1-800-222-1222
	For non-emergency assistance:	1-734-315-4221

SECTION 2: HAZARDS IDENTIFICATION	
GHS classification in accordance with 29 CFR 1910 (OSHA HCS) .Physical, Flammable Liquids, 3 In contact with water release flammable gas .Health, Acute toxicity, 5 Oral .Health, Specific target organ toxicity-Single Exposure, 3 Skin Corrosion 1A Skin Sensitization 1 Respiratory sensitization 1 Serious Eye damage 1 May cause cancer Signal word Danger	GHS hazard statements
	H225 Highly flammable liquid and vapor
	H261 In contact with water release flammable gas
	H302 Harmful if swallowed
	H312 Harmful in contact with skin
	H315 May cause an allergic skin reaction Skin Sensitization
	H334 Respiratory sensitization
	H336 May cause drowsiness or dizziness
	H351 May cause cancer
	GHS precautionary statements
	P201 Obtain special instructions before use.
	P202 Do not handle before reading and understanding safety precautions.
	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
	P232 Protect from Moisture.
	P233 Keep container tightly closed. Keep cool.
	P235
P240 Ground and bond container and receiving equipment.	
P241 Use explosion-proof electrical, ventilating, lighting and mixing equipment.	
P242 Use only non-sparking tool.	
P243 Take precautionary measures against static discharge.	
P261 Avoid breathing fumes, mist, and vapor.	
P264 Wash skin thoroughly after handling.	

	P270	Do not eat, drink or smoke when using this product.
	P271	Use only outdoors or in a well-ventilated area.
	P272	Contaminated work clothing must not be allowed out of the workplace.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P284	Wear respiratory protection.
	P301 P312 P330 P331	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.
	P303 P361 P353	IF ON SKIN (or hair): remove immediately all contaminated clothing. Rinse skin with water or shower.
	P304 P340 P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
	P305 P338 P351	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
	P314	Get medical advice/attention if you feel unwell.
	P333 P313	If skin irritation or rash occurs: Get medical advice/attention.
	P363	Wash contaminated clothing before use.
	P370 P378	In case of fire: Use only dry chemical or carbon dioxide for extinction.
	P403 P405	Store locked up in a well-ventilated place.
	P501	Dispose of contents and containers to an approved facility in accordance with local, regional, national, and international regulations.

SECTION 3: Composition		
Name	CAS#	Wt%
Aluminum oxide	1344-28-1	0-10
Cobalt Oxide	1308-06-1	0-3
Charcoal	16291-96-6	0-5
Iron oxide	1309-37-1	0-8
Nickel	7440-02-0	0-2
Proprietary ceramic and/or metallic pigment	–	5-45
Proprietary	–	5-40
parachlorobenzotrifluoride	98-56-6	20-65
Ethanol	75-21-8	0-30

SECTION 4: FIRST AID MEASURES

General advice	Consult a physician. Provide this data sheet to medical personnel. Move out of dangerous area.
If inhaled	Move person to fresh air. Seek medical attention. If not breathing or unconscious, provide artificial respiration. Exercise caution if performing mouth-to-mouth resuscitation for persons who have inhaled toxic or caustic substances.
Skin Contact	Immediately flush skin with large amount of water while removing contaminated clothing and shoes. Wash off with soap and water for at least 15 minutes. If symptoms persist, seek medical attention. Do not peel solidified product off the skin.
Eye Contact	Rinse thoroughly with plenty of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lid. Remove contact lenses if present and easy to do. Continue rinsing. Consult a physician.
Ingestion	Do not induce vomiting. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with head lower than the waist. Never give anything by mouth to an unconscious person. Rinse mouth with water, then drink a lot of water. Remove denture if present. Seek medical advice.

SECTION 5: Fire Fighting Measure

Extinguishing media	Suitable methods of extinction: Use only dry chemical or carbon dioxide. Unsuitable methods of extinction: Water jets streams may spread the fire.
Special hazards	Flammable liquid and vapor! Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Liquid will float and may reignite on the surface of water.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid breathing mist or vapors. Wear respiratory protection. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapor accumulation in low-lying areas.
Environmental precautions	Prevent further leakage or spillage, if practical and safe. Do not apply water to the spill. Do not allow product to enter drains. Avoid discharge into the environment.
Methods and materials for containment and remediation	Stop leak if possible and safe. Cover spill with vermiculite, perlite or ground clay. Do not use combustible material such as saw dust. Sweep up and store in appropriate waste container for disposal via a licensed waste disposal company.

SECTION 7: HANDLING AND STORAGE

<p>Precautions for safe handling:</p>	<p>This material is flammable: Avoid vapor formations and use with adequate ventilation, avoid breathing fumes. Vapors are heavier than air and will tend to collect in low areas. Avoid use in confined spaces. Flammable vapors may form explosive mixtures in the air. Ground coating equipment and containers at all times. Use non sparking tools. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair.</p> <p>Avoid bodily contact with material: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Wash hands thoroughly after handling and avoid contact with eyes. No eating, drinking or smoking near areas where substance is handled, processed or stored.</p>
<p>Conditions for safe storage, including incompatibilities</p>	<p>Keep container clearly labeled and tightly closed in a cool, dry, well-ventilated area. Opened containers must be carefully resealed and kept upright to prevent leakage. Keep away from heat, flames, static electricity. Containers are hazardous when empty as they contain product residues. Ventilate closed areas. Keep out of reach of children.</p>

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control: Adequate room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below exposure limits. Assure ACGIH TWA and OSHA PEL limits (varies by product) are maintained. Use of fume hoods or closed booths required when product is used in a manner that may generate mist or aerosol

Personal Protective Equipment:

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times. Solvent resistant (neoprene, nitrile or other nonporous) recommended.

Eyes: Chemical splash goggles should be worn at a minimum.

Skin: 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. Apron and protective industrial coating recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colored liquid	Evap. Rate:	Not Available
Physical state:	Liquid	Decomp Temp:	Not Available
Spec Grav./Density:	1.0-1.4 g/cm3	Odor:	Organic solvent
Viscosity:	50-100 Cp	Solubility:	Not Available
Boiling Point:	124-126C	Freezing/Melting pt.:	Not Available
Flammability:	Flammable	Flash Point:	>23C (>73F), closed cup
Partition Coefficient	Not Available	Vapor Density:	Not Available
Vapor Pressure	Not Available	VOC:	Yes
pH:	N/A	Auto-ignition Temp:	>500C (932F)
		UFL/LFL:	0.5v/v%-10.5v/v%

SECTION 10: STABILITY AND REACTIVITY

Hazardous polymerization	No
Hazardous Decomposition	Thermal decomposition products include oxides of carbon. Contact with acids and alkalis may release hydrogen.
Materials to avoid	Strong oxidizers, acids, water and alkalis
Chemical stability	Stable

SECTION 11: TOXICOLOGICAL INFORMATION

NTP Carcinogen: yes IARC Monographs: No OSHA Regulated: Yes (0.02mg/m³ TWA, 8h)

Cobalt oxide, Nickel are recognized as suspected carcinogens by the National Toxicology Program (NTP), the International Agency for Cancer Research (IARC) or the Occupational Safety and Health Administration (OSHA).
Reported Human Effects: No human studies have been conducted with this material. The use of recommended protective equipment should minimize any adverse effects.

Based on sums of components, following animal effects are expected:

Oral LD50, rat: >2000 mg/kg

Vapor LC50, rat 200 g/m³

Skin irritation, rabbit; corrosive.

SECTION 12: ECOLOGICAL INFORMATION

Avoid disposal in Landfills and sewage systems. Avoid releases into water sources

SECTION 13: DISPOSAL CONSIDERATIONS

This product, as well as any materials impregnated or infused with it during its use, must be disposed of in accordance with all applicable local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material

SECTION 14: TRANSPORT INFORMATION

UN 3469 (Paint, flammable, corrosive)

US DOT and IATA

Proper Shipping Paint, flammable, corrosive

Hazard Class: 3[8]

UN Number 3469

Packing Group: III

SECTION 15: REGULATORY INFORMATION

Component	CAS#	Wt%	Regulations
Proprietary	—	20-50	TSCA, PA, M, NJ
Inorganic pigments	—	15-30	TSCA
Cobalt Oxide	1308-06-1	0-3	TSCA, PA, M, NJ, CAprop65
Parachlorobenzotrifluoride	98-56-6	20-65	TSCA(export notification),NJ, PA, CAprop65
Nickel	7440-02-0	0-2	TSCA, PA, M, NJ, CAprop65

PA = PA Right-To-Know List of Hazardous Substances
M=Massachusetts Right-To-Know List of Hazardous Substances
NJ= New Jersey Right-To-Know List of Hazardous Substances
DE= Delaware Right-To-Know List of Hazardous Substances
NY= New York Right-To-Know List of Hazardous Substances
PA= Pennsylvania Right-To-Know List of Hazardous Substances
RI= Rhode Island Right-To-Know List of Hazardous Substances
WI= Wisconsin Right-To-Know List of Hazardous Substances
CA Prop. 65 = Safe Drinking Water and Toxic Enforcement Act
TSCA = Toxic Substances Control Act

The following are on the CA Prop. 65 list:*-Cobalt Oxide**-Nickel**-parachlorobenzotrifluoride*

PetraShield coatings meet all air quality and regulatory requirements with respect to manufacturing and application. Specifically, the hardened finished product does not release any "volatile organic compounds" (VOC) under any ambient conditions.

U.S. TOXIC SUBSTANCES CONTROL ACT: All components of this product are on the TSCA Inventory or are exempt from the TSCA Inventory requirements under 40 CFR 720.30.

This compound is subject to TSCA 12b export notification requirement 475645-84-2

SECTION 16: OTHER INFORMATION**NFPA**

Health=3

Fire=3

Reactivity=1

Specific Hazard=Yes

HMIS

Health=3

Fire=3

Physical Hazard=1

PPE: G- Safety Glasses, Gloves, Vapor respirators

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you (as it is your legal duty to) make all information in this Safety Data Sheet available to all your employees.

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