



Health	3
Fire	3
Reactivity	1
PPE	G

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION			
Product Name : Covaron InfernoWare [™] Shield A	Supplier Information:	1-734-315-4221	
Application: Thermosetting amorphous ceramic	d Covaron Advanced Materials		
CAS#: Not available	4401 Varsity drive, suite A		
RTECS: Not available		Ann Arbor, MI 48108	
Document Revision: 1.0		CHEMTREC (24-hour):	1-800-424-9300
Document Revision Date: 2025 January 6		Poison Control (24-hour):	1-800-222-1222
		For non-emergency assistance:	1-734-315-4221
SECTION 2	: HAZARD	S IDENTIFICATION	
GHS classification in accordance with	GHS haz	ard statements	
29 CFR 1910 (OSHA HCS)	H225	Highly flammable liquid and vapor	
.Physical, Flammable Liquids, 3	H261	In contact with water release flamma	ble gas
In contact with water release flammable gas	H302	Harmful if swallowed	
.Health, Acute toxicity, 5 Oral	H312	Harmful in contact with skin	
.Health, Specific target organ toxicity-Single	H315	May cause an allergic skin reaction	
Exposure, 3		Skin Sensitization	
Skin Corrosion 1A	H334	Respiratory sensitization	
Skin Sensitization 1	H336	May cause drowsiness or dizziness	
Respiratory sensitization 1	H351	May cause cancer	
Serious Eye damage 1		cautionary statements	
May cause cancer	P201	Obtain special instructions before use	2.
Signal word	P202	Do not handle before reading and und	derstanding safety
Danger		precautions.	
	P210	Keep away from heat, sparks, open fla	ames and hot
		surfaces. No smoking.	
	P232	Protect from Moisture.	
	P233	Keep container tightly closed. Keep co	ool.
	P235		
	P240	Ground and bond container and recei	ving equipment.
	P241	Use explosion-proof electrical, ventila	ting, lighting and
		mixing equipment.	
	P242	Use only non-sparking tool.	
	P243	Take precautionary measures against static discharge.	
	P261	Avoid breathing fumes, mist, and vap	or.
	P264	Wash skin thoroughly after handling.	

P270	Do not eat, drink or smoke when using this product.
P271	
P272	
	of the workplace.
P280	Wear protective gloves/protective clothing/eye
	protection/face protection.
P284	Wear respiratory protection.
P301	IF SWALLOWED: Call a POISON CENTER/doctor if you
P312	feel unwell. Rinse mouth. Do NOT induce vomiting.
P330	
P331	
P303	IF ON SKIN (or hair): remove immediately all
P361	. contaminated clothing. Rinse skin with water or
P353	shower.
P304	IF INHALED: Remove victim to fresh air and keep at rest
P340	in a position comfortable for breathing. Call a POISON
P312	CENTER or doctor if you feel unwell.
P305	IF IN EYES: Rinse cautiously with water for several
P338	, , , , , , , , , , , , , , , , , , , ,
P351	5 ,
	CENTER/doctor.
P314	
P333	
P313	
P363	
P370	
P378	
P403	
P405	
P501	
	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

Precautions for safe	This material is flammable:
handling:	 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. 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.
Conditions for safe storage, including incompatibilities	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.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control: Adequate room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminates 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	No				
polymerization					
Hazardous	us Thermal decomposition products include oxides of carbon.				
Decomposition	Contact with acids and alkalis may	/ release hydrogen.			
Materials to avoid	Strong oxidizers, acids, water and	alkalis			
Chemical stability	Stable				
	SECTION 11: TOXICOLOGICA	LINFORMATION			
NTP Carcinogen: yes IARC Monographs: No OSHA Regulated: Yes (0.02mg/m3 TWA, 8h)					
Cobalt oxide, Nickel are r International Agency for Reported Human Effects:	Cancer Research (IARC) or the Occupat	the National Toxicology Program (NTP), the ional Safety and Health Administration (OSHA). ed with this material. The use of recommended			
Based on sums of compo Oral LD50, rat: >2000 mg Vapor LC50, rat 200 g/m3 Skin irritation, rabbit; cor	3	ected:			

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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