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SAFETY DATA SHEET

Product Code: MC426K
Product Trade Name: Zinc Rich Air Dry Primer
Product Class / Intended End Use: Industrial Coating
Emergency Telephone Numbers: For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

For Emergency Transportation Information call CANUTEC at 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Flammable Liquid	3
Aspiration Toxicity	1
Specific Target Organ Toxicity, Single Exposure (CNS)	3
Specific Target Organ Toxicity, Single Exposure (Narcotic Effects)	3
Signal word:	Danger

Hazard Statements:

- Flammable liquid and vapour
- Combustible liquid
- May cause drowsiness and dizziness
- May be fatal if swallowed and enters airways
- May cause eye irritation
- May cause skin irritation
- May be harmful if inhaled

Precautionary Statements:

- Keep away from heat / sparks / open flames / hot surfaces. NO SMOKING
- Avoid breathing mist or vapours
- Use only outdoors or in a well-ventilated area
- Keep containers tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilation/lighting/equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Wear protective gloves/protective clothing/eye protection/face protection
- Store locked up

Other Hazards Which do no Result in Classification:

- Ingestion may cause irritation of the mouth, throat and stomach
- May cause irritation to the nose, throat and upper respiratory tract
- Contact with eyes may cause irritation. May cause mild skin irritation
- Prolonged or repeated contact may cause drying, cracking and defatting of the skin

Hazard Pictograms:



PROTEK PAINT – SAFETY DATA SHEET

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
Zinc Metal Powder	7440-66-6	48-49
Zinc Oxide	1314-13-2	12-13
Stoddard Solvent	8052-41-3	11-12
Naphtha, petroleum, hydrotreated heavy	64742-48-9	9-10

N/A = Not Available N/E = Not Established

SECTION 4: FIRST-AID MEASURES

- Inhalation:** Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin Contact:** Take off contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical attention.
- Eye Contact:** Immediately flush eyes with gentle flowing water for 10-15 minutes. Remove contact lenses if present and easy to do. Get medical attention.
- Ingestion:** Immediately call a poison center/doctor. Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Call a poison centre or doctor/physician if you feel unwell.

Most Important Symptoms and Effects (both acute and delayed):

- Inhalation of fume from fire or welding on zinc-coated surfaces may cause zinc shakes or metal fume fever (a benign transient flu-like condition), stomach cramps or diarrhea
- Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing.
- Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal
- May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include coughing, choking and wheezing
- May cause headache, nausea, dizziness and other symptoms of central nervous system depression
- Direct skin contact may cause temporary redness
- Direct eye contact may cause temporary redness.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
- May have laxative effects

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Treat symptomatically. Aspiration hazard. This product is a CNS depressant.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** CO₂, extinguishing powder, foam. Alternately, smother with dry sand. Do not use water.
- Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.
- Specific Hazards Arising from the Substance or Mixture:** Combustible liquid and vapour. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapour can travel considerable distance and flashback to a source of ignition. Vapours are heavier than air and collect in confined and low-lying areas.
- Hazardous Combustion Products:** Carbon dioxide and carbon monoxide.
- Special Protective Equipment and Precautions for Fire Fighters:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

PROTEK PAINT – SAFETY DATA SHEET

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

Environmental Precautions:

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and Materials for Containment and Clean Up:

Remove all sources of ignition. Ventilate the area. Prevent further leakage or spillage if safe to do so. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Spilled material will create slippery surfaces. Clean up promptly. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Use only outdoors or in a well-ventilated area. Wear suitable protective equipment. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat and open flames. - No smoking. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting/equipment. Keep away from oxidizing agents. Keep away from incompatibles. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use.

Conditions for Safe Storage:

Keep away from heat, sparks and open flame. - No smoking. Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Keep cool. Keep container tightly closed. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatibles:

Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Zinc Metal Powder	N/A	N/A	N/A	N/A
Zinc Oxide	N/A	N/A	N/A	N/A
Stoddard Solvent	100	N/A	500	N/A
Naphtha, petroleum, hydrotreated heavy	N/A	N/A	N/A	N/A
<i>N/A = Not Available N/E = Not Established</i>				

PROTEK PAINT – SAFETY DATA SHEET

Control Parameters:	No TLV data available on product.
Appropriate Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Use explosion-proof electrical and ventilating equipment.
Personal Protective Equipment	
Respiratory Protection:	Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.
Eye/Face Protection:	Chemical goggles must be worn to prevent dusts from entering the eyes.
Skin Protection:	Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Other Protective Equipment:	Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. Wear protective gloves. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
General Hygiene Considerations:	Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	21.3
Autoignition Temperature	Data Not Available
Boiling Point:	177-197 °C / 350.6-386.6 °F
Decomposition Temperature:	Data Not Available
Density / Specific Gravity:	0.77
Explosion Limit:	Upper: 1.0 vol% Lower: 13.3 vol %
Flammability (solid, gas):	Flammable
Flash Point (Setaflash Closed Cup):	43 °C / 109.4 °F
Melting Point/Freezing Point:	Not Applicable
Odour Threshold:	Data Not Available
Odour:	Mild Petroleum Odour
Partition Coefficient:	Data Not Available
pH:	Not Applicable
Physical State/Appearance:	Silver Grey Liquid
Relative Evaporation Rate (Butylacetate=1)	Data Not Available
Solubility in Water:	None
Specific Gravity:	1.87
Vapour Density:	Not Applicable
Vapour Pressure:	Not Applicable
Viscosity:	450-750 cps

PROTEK PAINT – SAFETY DATA SHEET

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not normally reactive
Chemical Stability:	Stable under normal condition of usage
Possibility of Hazardous Reactions:	Under normal storage and use, hazardous polymerization will not occur.
Conditions to Avoid:	Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.
Incompatibles:	Strong oxidizers (e.g. Chlorine, Peroxides, etc.), Sulphur
Hazardous Decomposition Products:	Heat generated zinc oxide fumes. Contact with acids or alkaline hydroxides may generate hydrogen gas, which is flammable. Reactivity with water is similar but very slow.

SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	mg/L	Animal	Route
Zinc Metal Powder		N/A			N/A	
Zinc Oxide		N/A			N/A	
Stoddard Solvent	>5000 >3000	Rat Rabbit	Oral Dermal	>5.5	Rat	Inhalation, 4h
Naphtha, petroleum, hydrotreated heavy	>6000	Rat	Oral	8500 mg/m ³	Rat	Inhalation, 4h
<i>N/A = Not Available N/E = Not Established</i>						

Acute Toxicity:	No test data on mixture.
No Test Data for the Mixture On:	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT- single exposure, STOT- repeated exposure, aspiration.
Likely Routes of Exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms/Injuries after Inhalation:	May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause respiratory tract irritation. Symptoms may include coughing, choking and wheezing. Inhalation of fume from fire or welding on zinc-coated surfaces may cause zinc shakes or metal fume fever (a benign transient flu-like condition), stomach cramps or diarrhea
Symptoms/Injuries after Skin Contact:	May cause mild skin irritation on prolonged contact.
Symptoms/Injuries after Eye Contact:	Direct eye contact may cause slight redness.
Symptoms/Injuries after Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. Aspiration may cause pulmonary oedema and pneumonitis. Inhalation of fume from fire or welding on zinc-coated surfaces may cause zinc shakes or metal fume fever (a benign transient flu-like condition), stomach cramps or diarrhea
Potential Chronic Health Effects:	Prolonged exposure can cause redness, swelling, itching, cracking of the skin, dermatitis and sensitization.
Specific Target Organ Effects:	May cause drowsiness and dizziness.

PROTEK PAINT – SAFETY DATA SHEET

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
VOC (g/L):	398
Persistence and Degradability:	Not readily biodegradable
Bio-accumulative Potential:	No test data
Mobility in Soil:	This material has low solubility and floats, and is expected to migrate from water to the land.
Other Adverse Effects:	None known

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal:	Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
Methods of Disposal:	Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water.
RCRA:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

DO NOT INCINERATE CLOSED CONTAINERS.

SECTION 14: TRANSPORT INFORMATION

UN Number:	1263
UN Proper Shipping Name:	Paint
Transport Hazard Class:	3
Packing Group:	III
Environmental Hazards:	Information not available.
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Avoid static electricity.
Transport in Bulk:	Information not available.

SECTION 15: REGULATORY INFORMATION

Canada:	All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
USA:	<p>TSCA: All components of this material are on the US TSCA inventory or are exempt.</p> <p>OSHA: This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).</p> <p>CERCLA: Reportable quantities (RQ) (40 CFR 117.302). Data not available.</p> <p>SARA TITLE 111: Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available</p> <p>SARA TITLE 111: Sec 313, toxic chemical notification, 40 CFR 372 - Data not available</p>

PROTEK PAINT – SAFETY DATA SHEET

SECTION 16: OTHER INFORMATION

HMIS:	Health 2	Flammability 2	Physical Hazards 0
NFPA:	Health 2	Flammability 2	Instability 0

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END OF SAFETY DATA SHEET