MATERIAL SAFETY DATA SHEET

PERMATEX INDUSTRIAL
705 North Mountain Road
Newington, CT 06111
Phone: (800) 641-7376

*Issued: January 1, 1994

Zinc Rich Cold Galvanizing Compound

I. PRODUCT IDENTIFICATION

Product Name:
Item No.:
Product Type: Rust Preventer
Formula No.: Does not apply

II. COMPOSITION

Ingredients	CAS No.	%
METHYL ETHYL KETONE*	78-93-3	[illegible]
ZINC	7440-66-6	[illegible]
PROPANE	74-98-6	[illegible]
Solvent	Proprietary	[illegible]
XYLENES*	1330-20-7	[illegible]
n-BUTYL ACETATE	123-86-4	[illegible]
Epoxy resin	Proprietary	[illegible]
TOLUENE*	108-88-3	0.1-1

* This component is listed as a SARA Section 313 Toxic Chemical.

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: 50-60 Psig
Vapor Density: Greater than air
Solubility in Water: Unknown
Specific Gravity: 1.39 (base only)
Boiling Point: Propellant: Lower than 0°F
Volatile Organic Compound (EPA Method 24): 70.1%(maximum)
Evaporation Rate (Ether = 1): Not available
pH: Does not apply
Appearance: Gray liquid
Odor: Solvent

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point: Propellant: Lower than 20°F Method: Tag Open Cup
Estimated NFPA Code:
Health Hazard: 2
Fire Hazard: 4
Reactivity Hazard: 2
Specific Hazard: Does not apply
Estimated HMIS Code:
Health Hazard: 2
Flammability Hazard: 4
Reactivity Hazard: 2
Personal Protection: See Section X.
Explosive Limits:
(% by volume in air) Lower: Methyl Ethyl Ketone 1.8%; Propane 2.1%; Xylene 1.1%; Butyl Acetate 1.7%
(% by volume in air) Upper: Methyl Ethyl Ketone 11.4%; Propane 9.5%; Xylene 7.0%; Butyl Acetate 9.9%
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical. Water may be ineffective.
Hazardous Products Formed by Fire or Thermal Decomp: Irritating organic vapors; oxides of carbon.
Unusual Fire or Explosion Hazards: Aerosols may explode in fires. Water may be used to keep fire exposed containers cool.
Compressed Gases: Propane
Pressure at Room Temp.: 50-60 psig

V. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak: Remove sources of ignition. Maintain adequate ventilation. Take up with an inert absorbent. Store in a closed container until disposal.
Recommended methods of disposal: Incinerate following EPA and local regulations for aerosols. Do not incinerate pressurized cans.

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ITEM NO.	PART NO.	CONTAINER SIZE	ITEM NO.	PART NO.	CONTAINER SIZE
[illegible]	[illegible]	Net Wt. 15 oz Aerosol			

VI. STORAGE AND HANDLING PROCEDURES

Storage: Store below 120°F to preserve shelf life, away from exposure to direct sunlight or other heat, which may cause bursting.
Handling: Avoid eye contact or prolonged skin contact. Avoid prolonged breathing of vapors. Do not spray near open flame. Do not puncture cans.

VII. SHIPPING REGULATIONS

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity
Hazard Class or Division: ORM-D
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Aerosols, flammable, n.o.s.
Class or Division: Class 2.1
ID or ID Number: UN 1950

VIII. REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products (non-thermal): None
Incompatability: None

IX. EMERGENCY TREATMENT PROCEDURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Wash with soap and water.
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

X. PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration below TLV.

XI. HEALTH HAZARD DATA

Toxicity: Eye, skin and upper respiratory tract irritant.
Primary Routes of Entry: Inhalation, Ingestion, Contact.
Signs and Symptoms of Exposure: Headache, nausea, dizziness, light headedness, staggering gait, giddiness. Vapors are anesthetic at high concentrations. Harmful or fatal if swallowed.
Existing Conditions Aggravated by Exposure: None known

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
METHYL ETHYL KETONE	200 ppm TWA [illegible] mg/m3	200 ppm TWA [illegible] mg/m3	None
ZINC	10 mg/m3	15 mg/m3 dust; 5 mg/m3 respir.	None
PROPANE	Asphyxiant	1000 ppm [illegible] mg/m3	None
XYLENES	100 ppm TWA [illegible] mg/m3	100 ppm TWA [illegible] mg/m3	None
n-BUTYL ACETATE	150 ppm TWA [illegible] mg/m3	150 ppm TWA [illegible] mg/m3	None
TOLUENE	[illegible] mg/m3	[illegible] mg/m3	None
	[illegible] mg/m3 skin	375 mg/m3	

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
METHYL ETHYL KETONE	[illegible] ppm [illegible] mg/m3	[illegible] ppm [illegible] mg/m3
XYLENES	[illegible] ppm [illegible] mg/m3	[illegible] ppm [illegible] mg/m3
n-BUTYL ACETATE	[illegible] ppm	[illegible] ppm

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XI. HEALTH HAZARD DATA (continued)

TOLUENE	950 mg/M3 Mean	950 mg/M3 150 PPM 560mg/M3

Ingredients for which no Exposure Limits have been established are not listed above.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP	IARC	OSHA
METHYL ETHYL KETONE	TEF EYE LIV NER REN	NO	N/A	NO
[illegible]	[illegible]	NO	NO	NO
[illegible]	[illegible]	NO	NO	NO
[illegible]	No Data	NO	NO	NO
[illegible]	[illegible] CAS IRR EYE LIV LUN NER	NO	NO	NO
n-BUTYL ACETATE	IRR EYE LUN NER REN	NO	NO	NO
Epoxy resin	No Data	NO	NO	NO
TOLUENE	DEV FET IRR NUT NER REP	NO	NO	NO

Abbreviations

N/A Not Applicable	NER Brain
DEV Developmental	EYE Cutaneous
GAS Gastrointestinal	CAR Heart
IRR Irritant	KID Kidney
LIV Liver	LUN Lung
MUT Mutagen	NER Nervous System
REP Reproductive	RES Respiratory

ADDITIONAL INFORMATION:
Butyl acetate has been shown to cause adverse reproductive effects in experimental animals upon high dose inhalation. Some reports have also associated repeated and prolonged exposure to these solvents with kidney and permanent brain damage.
It is our best technical judgment that, with proper precautions, normal use of this product poses no such hazards.

XII. PREPARATION INFORMATION

Prepared By:	Stephen Ronetto
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