

ITW Permatex
 Versachem Brand
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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: INFERNO METAL REPAIR
Product Type: Repair compound

This product appears in the following stock number(s):
83009

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
IRON 7439-89-6	30-60	Not listed	Not listed
SODIUM SILICATE 1344-09-8	<10	Not listed	Not listed
MAGNESIUM SILICATE 14807-96-6	<10	2 mg/m ³	20 mppcf
CHROMIUM 7440-47-3	<10	0.5 mg/m ³	Not listed
CALCIUM MAGNESIUM SILICATE 65997-17-3	<3	Not listed	Not listed
MOLYBDENUM 7439-98-7	<2	10 mg/m ³	Not listed
NICKEL 7440-02-0	0.1-1.0	1.5 mg/m ³	1 mg/m ³

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye, skin and respiratory irritation. May be harmful if swallowed.
Primary Routes of Entry: Eye and skin contact, ingestion, inhalation
Signs and Symptoms of Exposure: Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea. Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough. Overexposure may cause eye and skin redness.

Component	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
MAGNESIUM SILICATE 14807-96-6	<10	male rat-some evidence, female rat-clear evidence, male mice-no evidence, female mice-no evidence	A4-Not classifiable as a human carcinogen	Group 3 Supplement 7, 1987 Monograph 42, 1987
CHROMIUM 7440-47-3	<10		A4 - Not classifiable as a Human carcinogen	Group 3 Monograph 49, 1990; Supplement 7, 1987
NICKEL 7440-02-0	0.1-1.0	Reasonably anticipated to be a human carcinogen	A5 - Not Suspected as a Human Carcinogen	Group 2B Monograph 49, 1990

Aggravated Medical Condition: Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

4. FIRST AID MEASURES

Ingestion: If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.
Skin Contact: Rinse immediately with plenty of water for at least 15 minutes. Wash off with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

5. FIRE FIGHTING MEASURES

Flash Point °F(C°):	None
Recommended Extinguishing Media:	Carbon dioxide, Dry chemical, Foam
Special Fire-Fighting Procedures:	Firefighters should wear self-contained breathing apparatus and protective clothing to prevent all skin and eye contact
Hazardous Products of Combustion:	Oxides of carbon, Flammable hydrogen gas
Unusual Fire/Explosion Hazards:	Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion.
Lower Explosive Limit:	n/d
Upper Explosive Limit:	n/d

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Maintain good ventilation. Sweep up and shovel into suitable containers for disposal. Use only non-sparking tools.
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7. HANDLING AND STORAGE

Storage:	Store in a cool, dry area.
Handling:	Avoid contact with skin and eyes. Use in a well ventilated area. Wash hands before eating and smoking. Discard contaminated leather gloves and shoes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses
Skin:	Neoprene or nitrile gloves recommended.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product
Respiratory Protection:	An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray paste
Odor:	Little odor
Boiling Point:	Not applicable
Solubility in Water:	Negligible
pH:	Neutral
Specific Gravity:	3.2
VOC(Wt.%):	0
Vapor Pressure:	Not Determined
Vapor Density (Air=1):	>1
Evaporation Rate:	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal conditions
Hazardous Polymerization:	Will not occur
Incompatibilities:	Strong oxidizers, Acids
Conditions to Avoid:	Excessive heat
Hazardous Products of Combustion:	Oxides of carbon, Flammable hydrogen gas

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:	Disposal should be made in accordance with federal, state and local regulations
US EPA Waste Number:	NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)
U.S. Department of Transportation - DOT - 49 CFR (Ground)

14. TRANSPORTATION INFORMATION

DOT Shipping Name: Not regulated
Hazard Class: None
UN/ID Number: None

IATA (Air)

Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG (Vessel)

Proper Shipping Name: Not regulated
Hazard Class: None
UN Number: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

Chromium, Nickel

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

TSCA Inventory Status: All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0

(NFPA is a registered trademark of the National Fire Protection Association)

(HMIS is a registered trademark of the National Paint and Coatings Association)

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