

Material Safety Data Sheet

ITW Consumer - Devcon/Versachem

1 of 5

INFERNO METAL REPAIR

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

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tradename: INFERNO METAL REPAIR

General use: This is a one component resin system. After curing, the product is not hazardous

Chemical family: Aqueous sodium silicate

MANUFACTURER

ITW Consumer - Devcon/Versachem
2107 West Blue Heron Blvd.
Riviera Beach, Florida 33404

EMERGENCY INFORMATION

Emergency telephone number
(CHEMTEL): (800) 255-3924
(CHEMTEL International): (+01) 813-248-0585
Other Calls: (561) 845-2425

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Abbr.	Weight%	ACGIH; TLV-TWA	OSHA PEL:	Other Limits
IRON 7439-89-6	n/e	20-45		n/e	n/e
ALUMINUM 7429-90-5	n/e	10-20	10 mg/m ³ TWA (metal dust) ACGIH	15 mg/m ³ TWA (total dust), 5 mg/m ³ TWA (respirable)	10 mg/m ³ TWA (Canada)
MAGNESIUM SILICATE 14807-96-6	n/e	5-15	2 mg/m ³ resp. TWA ACGIH	20 mppcf TWA	n/e
NICKEL 7440-02-0	n/e	<10	1.5 mg/m ³	metal and insoluble compounds, as Ni: 1 mg/m ³ TWA; soluble compounds, as Ni: 1 mg/m ³ TWA	1 mg/m ³ TWA (Canada)
SODIUM SILICATE 1344-09-8	n/e	<10		n/e	n/e
MOLYBDENUM 7439-98-7	n/e	<5		15 mg/m ³ TWA (total dust)	n/e
CHROMIUM 7440-47-3	n/e	<5		1 mg/m ³ TWA	0.5 mg/m ³ TWA (Canada)
TRADE SECRET (Non-hazardous) MIXTURE	n/e	balance		n/e	n/e

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identify is a trade secret of our supplier and unknown to us.

3. HAZARDOUS IDENTIFICATION

Emergency Overview

Appearance, form, odor: Grey paste with little odor

CAUTION!. Eye, skin and respiratory irritant. Harmful if swallowed.

Potential health effects

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation

Symptoms of acute overexposure

Skin: Moderate skin irritant .

Eyes: Irritant

Inhalation: Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing

Ingestion: Irritating to mouth, throat and stomach..

Effects of Chronic Exposure: May cause dermatitis.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
MAGNESIUM SILICATE 14807-96-6	5-15	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
NICKEL 7440-02-0	<10	Reasonably anticipated to be a human carcinogen	A5 - Not Suspected as a Human Carcinogen	Group 2B Monograph 49, 1990
CHROMIUM 7440-47-3	<5		A4 - Not classifiable as a Human carcinogen	Group 3 Monograph 49, 1990; Supplement 7, 1987

Medical Conditions Recognized as Being Aggravated by Exposure:

Preexisting eye and skin disorders. Development of preexisting skin or lung allergy symptoms may increase.

Other:

See Section 11

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention..

Skin Contact: Immediately remove contaminated clothing and excess contaminant. Flush with water for at least 15 minutes. Wash thoroughly with soap and water. Consult a physician if irritation develops.

Inhalation: Move to fresh air; get medical attention if symptoms persist.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person

5. FIRE FIGHTING MEASURES

Recommended Extinguishing Media: Carbon dioxide, Dry chemical, foam

Flash point: non-combustible

Method: N/A

Lower Explosive Limit: n/d

Upper Explosive Limit: n/d

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus.

Unusual Fire/Explosion Hazards:
None.

Hazardous Products of Combustion:
Carbon monoxide, Carbon dioxide, Flammable hydrogen gas

6. ACCIDENTAL RELEASE MEASURES

Spill Control: Avoid personal contact. Eliminate ignition sources. Ventilate area.

Containment: Dike, contain and absorb with clay, sand or other suitable material

Cleanup: For large spills, pump to storage/salvage vessels. Wipe or scrape up spill material. Place in an appropriate waste container for disposal. Flush area with water.

Special procedures: Prevent spill from entering drainage/sewer systems, waterways and surface water.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with the skin and the eyes. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics or using toilet facilities. Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles. Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Storage: Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:

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.

Other engineering controls: Eye wash station.

Personal protective equipment

Eye and face protection: Safety glasses with side shields

Skin protection: Chemical-resistant gloves (i.e. butyl) and other gear as required to prevent skin contact.

Respiratory protection: With good ventilation, none required. Should dust be raised in handling (unlikely), wear NIOSH-approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity: 1.6

Boiling Point: >500F

Melting point: n/d

Vapor Density (Air=1): >1

Vapor Pressure: n/d

Evaporation Rate: <1 (butyl acetate = 1)

VOC: 0

Solubility in water: Negligible

pH (5% solution or slurry in water): neutral

10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

Conditions to Avoid: Contact with certain metals produces hydrogen gas.

Incompatibilities: Acids

Hazardous Products of Combustion: Carbon monoxide, Carbon dioxide, Flammable hydrogen gas

Conditions under which hazardous polymerization may occur: None known.

11. TOXICOLOGICAL INFORMATION

Eye Contact: No data available.

Subchronic effects: No data available.

Carcinogenicity, tertogenicity and mutagenicity: No data available.

Other chronic effects: None known.

Toxicological information on hazardous chemical constituents of this product:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr (rat)
IRON 7439-89-6	984 mg/kg	n/d	n/d
ALUMINUM 7429-90-5	n/d	n/d	n/d
MAGNESIUM SILICATE 14807-96-6	n/d	n/d	n/d
NICKEL 7440-02-0	n/d	n/d	n/d
SODIUM SILICATE 1344-09-8	oral rat: 1153 mg/kg	n/d	n/d
MOLYBDENUM 7439-98-7	n/d	n/d	n/d
CHROMIUM 7440-47-3	n/d	n/d	n/d
TRADE SECRET (Non-hazardous) MIXTURE	n/d	n/d	n/d

'n/d' = not determined

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12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility and persistence: No data available.

Environmental fate: No data available.

13. DISPOSAL CONSIDERATIONS

Please see also Section 15, Regulatory Information.

Recommended Method of Disposal: If material becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state and local regulations.

US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material.

14. TRANSPORT INFORMATION

Proper shipping name: Not regulated

Hazard class: N/A

UN/ID Number: N/A

Packing group: N/A

Emergency Response Guide no: N/A

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA:

All ingredients of this product are listed or are exempt from listing on the TSCA Inventory.

The following RCRA code(s) applies to this material if it becomes waste:

None

Regulatory status of hazardous chemical constituents of this product:

Component	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	12B EXPORT NOTIFICATION:
IRON 7439-89-6	No	No	0.0	Not required
ALUMINUM 7429-90-5	No	Yes	0.0	Not required
MAGNESIUM SILICATE 14807-96-6	No	No	0.0	Not required
NICKEL 7440-02-0	No	No	final RQ = 100 pounds (45.4 kg) (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches)	Not required
SODIUM SILICATE 1344-09-8	No	No	0.0	Not required
MOLYBDENUM 7439-98-7	No	No	0.0	Not required
CHROMIUM 7440-47-3	No	Yes	5000	Not required
TRADE SECRET (Non-hazardous) MIXTURE	No	No	0.0	Not required

*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance List.

**Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material: Immediate health hazard, Delayed health hazard

California regulations: For purposes of the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop.65), this product contains a chemical(s) known to the State of California to cause cancer.

Canadian Regulations

WHMIS Hazard Class: D2B TOXIC MATERIALS

Regulatory Notes: Iron, chromium, molybdeum and nickel are part of a homogeneous alloy powder.

16. OTHER INFORMATION

Hazardous Material Information System (HMIS) rating:

Health 1* Flammability 0 Physical Hazard 0

HMIS is a registered trademark of the National Paint and Coatings Assn.

Revision Date: November/04/2008

Revision Number: 2

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