

# MATERIAL SAFETY DATA SHEET

RIComed Mfg.

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NFPA Rating	NFPA Scale
Health = 2	4 = Severe Hazard
Flammability = 0	3 = Serious Hazard
Reactivity = 0	2 = Moderate Hazard
Other = 0	1 = Slight Hazard
	0 = Minimal Hazard

MATERIAL: Stainless Steel  
PURITY: 303, 302

CODE  
N/A

KEY  
N/A

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FORMULA  
Alloy of Iron, Chromium,  
Nickel, others

CHEMICAL NAME OR SYNONYMS  
Stainless Steel Alloys

## I - COMPOSITIONAL INFORMATION

		CAS #		PEL		TLV	
1. C	6. Cu	1. 1333-86-4	6. 7440-50-8	1. 3.50	6. 1.00	1. 3.50	6. 1.00
2. Si	7. Ni	2. 7440-21-3	7. 7440-02-0	2. ----	7. 1.00	2.5.00	7. 1.00
3. Mn	8. Cr	3. 7439-96-5	8. 7440-47-3	3. 5.00	8. 1.00	3. 5.00	8. 0.50
4. P	9. Mo	4. 7723-14-0	9. 7439-98-7	4. 0.10	9. 15.0	4. 0.10	9. 10.0
5. S	10.	5. 7446-09-5	10.	5. ----	10.	5. 5.00	10.

## II - PHYSICAL PROPERTY INFORMATION

APPEARANCE - ODOR - pH.  
Solid, Odorless Metal

VISCOSITY  
N/A

MELTING OR FREEZING POINT  
2400-2800 F

BOILING POINT  
High

VAPOR PRESSURE  
nil

VAPOR DENSITY (Air=1)  
nil

SOLUBILITY IN WATER  
Insoluble

% VOLATILE (By Weight)  
n/a

SPECIFIC GRAVITY  
(Water=1)  
7.5 - 8.5

EVAP. RATE (Butyl  
Acetate=1)  
n/a

## III - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT  
N/A

IGNITION TEMPERATURE  
N/A

LOWER EXPLOSION LIMIT  
(%)  
N/A

UPPER EXPLOSION LIMIT (%)  
N/A

EXTINGUISHING MEDIA  
 See Below

ALCOHOL  
 FOAM  CO2

DRY  
 CHEMICAL

WATER  
 SPRAY  OTHER

### SPECIAL FIRE FIGHTING PROCEDURE

Firefighters must wear full face, self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Use suitable extinguishing media for surrounding materials and type fire.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

None

## IV - HEALTH HAZARD INFORMATION

### RECOMMENDED WORK PLACE EXPOSURE LIMITS

When grinding or welding use eye protection and a dust mask

### EFFECTS OF OVEREXPOSURE

Welding and high temperature cutting may produce dust and fumes. Short-term exposure may cause nausea, fever, irritation of eyes, nose, throat, skin; metallic taste. Long-term exposure may result in skin sensitization, neurological damage and respiratory disease.

### EMERGENCY AND FIRST AID PROCEDURES

Inhalation: move person to fresh air for at least 15 min. Skin: wash with water and mild detergent. Eyes: flush thoroughly with water.

Ingestion: Unlikely to be a health hazard, yet consult a physician when it occurs

## V- REACTIVITY INFORMATION

### STABILITY

STABLE       UNSTABLE

### CONDITIONS TO AVOID

Continuous exposure to gasses and fumes

### HAZARDOUS DECOMPOSITION PRODUCTS

Metallic dust or fumes may be produced during welding, grinding, burning and possibly machining.

### HAZARDOUS POLYMERIZATION

May occur

### CONDITIONS TO AVOID

Continuous exposure to gasses and fumes

### INCOMPATIBILITY (MATERIALS TO AVOID)

WATER     OTHER Reacts with strong acids to produce hydrogen gas

## VI - SPILL OR LEAK PROCEDURE INFORMATION

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Collect residue from cutting, grinding or welding operations in a suitable container. Dispose in accordance with local, regional and state laws and regulations.

### WATER DISPOSAL METHODS

In accordance with local, state and federal regulations

## VII - SPECIAL PROTECTION INFORMATION

### VENTILATION TYPE

Use local exhaust when cutting, grinding and welding

### RESPIRATORY PROTECTION

If your process causes a release of dust or fume in excess of PEL, NIOSH approved respirators should be worn in accordance with 29CFR 1910.134

### PROTECTIVE GLOVES

Not imperative

### EYE PROTECTION

Always use goggles when cutting, grinding or welding

### OTHER PROTECTIVE EQUIPMENT

## VIII - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
<input type="checkbox"/> MAX <input type="checkbox"/> MIN	x			

Keep inside a dry place

## IX - TOXICITY INFORMATION

Material may cause fumes or gasses when grinding, cutting or welding

## X - MISCELLANEOUS INFORMATION

Eye protection and protective clothing should be worn when grinding and welding

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