

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072



IDENTITY (As Used on Label and List)

Tools-(Taps & Drills) Tool Steel

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

Reiff and Nestor Company

Address (Number, Street, City, State, and ZIP Code)

P.O. Box 147

Lykens, PA 17048

Emergency Telephone Number

(717) 453-7113

Telephone Number for Information

(717) 453-7113

Date Prepared

August 1, 1987

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
(CAS)	mg/m ³		mg/m ³	
Carbon (C) 1333-86-4	3.5		3.5	
Silicon (Si) 7440-21-3	-		0.0	
Manganese (Mn) 7439-96-5	5.0		5.0	
Chromium (Cr) 7440-47-3	1.0		0.5	
Tungsten (W) 7440-33-7	-		5.0	
Vanadium (V) 7440-62-2 1314-62-1	0.5 dust, 0.1 fume		0.05	
Molybdenum (Mo) 7439-98-7	15.0		10.0	
Iron (Fe) 1309-37-1	10.0		5.0	

Section III — Physical/Chemical Characteristics

Boiling Point	Specific Gravity (H ₂ O = 1)
5000°F	7.8-8.2 60°F
Vapor Pressure (mm Hg)	Metting Point
N/A	2500°F
Vapor Density (AIR = 1)	Evaporation Rate
N/A	(Butyl Acetate = 1) N/A
Solubility in Water	
Insoluble	

Appearance and Odor

Metal Cutting Tools Various Geometries Steel Gray to Black Metal, No Odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A	N/A		
Extinguishing Media			
N/A			
Special Fire Fighting Procedures			
N/A			
N/A			
Unusual Fire and Explosion Hazards			
N/A			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Can React with Strong Acids to produce Hydrogen gas

Hazardous Decomposition or Byproducts

Metal Oxides

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

ACUTE: Inhalation of metal dust or fumes can cause "metal oxide fever" lasting 12 to 24h

CHRONIC: Repeated or continuous inhalation of fumes may cause severe irritation, ulceration, or cancer of the respiratory system.

Cardiogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	Yes	Yes	Yes

Signs and Symptoms of Exposure

Metal Fume Fever: Chills and fever; Metallic taste in mouth

Medical Conditions

Generally Aggravated by Exposure

Not applicable, when material in solid state

Emergency and First Aid Procedures

Remove excess dust, wash area with soap and water. Remove person to fresh air area.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

N/A

Waste Disposal Method

Solid Waste: sell as scrap

Collected Dust: Follow federal, state and local rules and regulations

Precautions to Be Taken in Handling and Storing

Don't store near acids

NOTE: We consider this product a manufactured article. We do not consider this product in the form it is sold to constitute a health or physical hazard. Subsequent operations such as grinding, melting, welding, cutting or processing in any other fashion that causes a release of dust or fumes may cause some of the ingredients to change form which could affect exposed workers.

Section VIII — Control Measures

Respiratory Protection (Specify Type) If fumes, misting or dust condition occurs use NIOSH approved respirators if TLV's are exceeded.

Ventilation	Local Exhaust	As Required	Special
	Mechanical (General)	Recommended	Other

Protective Gloves	As required	Eye Protection	Recommended
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Other Protective Clothing or Equipment As required

Work/Hygiene Practices Use good housekeeping practices to keep dust to a minimum