

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CTI Metal Polish / Free Flite™ Cleaner - Polish		DATE: July 17, 2009	
PRODUCT NUMBER: 84-395, 84-391, 84-392			
TRADE NAME: CTI Metal Polish / Free Flite™ Cleaner - Polish GENERAL USE: Cleaner and Polish CHEMICAL FAMILY: Mixed PRODUCT DESCRIPTION: Tan paste with mild petroleum odor.			
DISTRIBUTOR: CYCLO TOOLMAKERS, INC.		DATE PREPARED: July 17, 2009	
TELEPHONE NUMBER (General Inquiries): 303-485-1990		SUPERSEDES: December 22, 2004	
ADDRESS (NUMBER, STREET, P.O. BOX): 1740 Skyway Dr. (CITY, STATE AND ZIP CODE): Longmont, CO 80504		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS	
		 1-800-255-3924	813-248-0585 International and Local Calls
COUNTRY: USA		North America (Toll Free)	

SECTION 2 - HAZARDOUS INGREDIENTS



Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Petroleum Spirits	50-60	64742-47-8	265-149-8	Xn	R65
Microcrystalline Silicas †	5-15	1317-95-9	231-545-4*	Xn	R20,R37,R45,R68
Morpholine	1-5	110-91-8	203-815-1	C	R10, R20/21/22, R34

NOTES: († - Contains Cristabolite at 30-35%) (* - References Silica) This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006/EEC. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 1997/2006/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.

SECTION 3 - HAZARDS IDENTIFICATION


EMERGENCY OVERVIEW

WARNING: THIS PRODUCT CONTAINS A CHEMICAL (SILICA) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. Avoid breathing dusts from dried product. May cause skin, eye, respiratory and gastrointestinal tract irritation. Target Organs: nervous system, respiratory system.

US AND CANADA HAZARD SYMBOL(S) 	EUROPEAN (GHS) HAZARD SYMBOLS 
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HMIS HAZARD RATINGS	HEALTH: 2*	* - Chronic Conditions warning (silica).
0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE, 3 = HIGH, 4 = EXTREME	FLAMMABILITY: 1	
	PHYSICAL HAZARD: 0	

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:

HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: E		Safety glasses, dust respirator and gloves are required. In the unusual case of high organic vapor levels, a combined dust/vapor respirator should be used.
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RISK PHRASES

R21/22 Harmful in contact with skin and if swallowed.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R45 May cause cancer.
 R52 Harmful to aquatic organisms.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.

SAFETY PHRASES

S1/2 Keep locked up and out of the reach of children.
 S7/9 Keep container tightly closed and in a well-ventilated place.
 S16 Keep away from sources of ignition — No smoking.
 S23 Do not breathe fumes/dust.
 S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.
 S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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SECTION 3 - HAZARDS IDENTIFICATION (Continued)

POTENTIAL HEALTH EFFECTS

INHALATION:

Unlikely route of absorption, except from dusts of dried product. May cause irritation. Exposure to microcrystalline silica dusts has been associated with the development of cancer.

SKIN:

This material may cause skin irritation, especially upon prolonged or chronic exposure. Prolonged or repeated exposure to this material may cause redness and itching/burning of the skin. There is a potential for absorption through the skin, especially if gasoline or kerosene is present. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

EYES:

This material is an eye irritant. Direct contact with the product or the unlikely exposure to product vapors may cause burning, tearing, redness, and swelling of the eyes and conjunctiva. Mechanical damage to the cornea may occur through abrasion.

INGESTION:

May cause headache, nausea, irritation of digestive tract, abdominal pain, nausea and vomiting. Nervous system depression is likely when large amounts are swallowed. Pneumonias may result from aspiration of ingested product into lungs.

CARCINOGENICITY:

NTP? Yes-Silica	IARC MONOGRAPHS? Yes (Silica - Class 2A)	OSHA REGULATED? NO
CALIFORNIA, Prop.65?	Yes (as Silicas)	ESIS NOTATION? Yes

SECTION 4 - FIRST AID MEASURES

INHALATION:

Remove subject to fresh air. Give oxygen or artificial respiration as needed. Consult medical personnel for severe cases.

EYES:

Remove contact lenses if present, then flush immediately with water for 15 minutes, consult physician if irritation is apparent.

SKIN:

Wash thoroughly with soap and water. Wash all contaminated clothing before reuse.

INGESTION:

DO NOT INDUCE VOMITING!! Call Poison Control or physician immediately. If vomiting occurs spontaneously, place victims head below chest level (lean victim forward) to prevent aspiration of vomitus.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Solid may combust at elevated temperatures ($\geq 195^\circ\text{F}$ or $\geq 90^\circ\text{C}$). Avoid ignition sources or extreme temperatures. Do not expose to open flames or heat sources, such as space heaters or welding operations.

EXTINGUISHING MEDIA:

Foam, Dry Chemical, CO₂, or water spray fog.

FIRE FIGHTING PROCEDURES:

Water stream may spread fire. Use water spray or fog to cool fire exposed containers. Containers may rupture if exposed to extreme heat. Self contained breathing apparatus and chemical gear should be worn when fighting all chemical fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Avoid ignition sources or extreme temperatures. This material creates a special hazard since it is expected to float on water.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon, Silicon, and nitrogen oxides

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Eliminate all ignition and heat sources. Transfer product back into original containers if possible, or into inert containers for disposal. Use non-sparking tools. Remove contaminated clothing and wash affected skin areas with soap and water. If fire potential exists, blanket spill with foam. Avoid introduction of product into sewers or bodies of water. If required, notify State and Local Authorities. Treat waste or discarded product as a combustible solid.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not store at temperatures above 120° F. Do not use or store product near or around ignition sources. Treat waste product and containers as combustible.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
Petroleum Spirits	-----	350	-----	1800⁽²⁾	100	-----	500	2900
Microcrystalline Silicas						0.025⁽¹⁾	-----	0.1⁽¹⁾
Morpholine	20	70	1400 IDLH		20 Skin		20 TWA	70 TWA

(1) - Respirable Silica (referent to quartz), (2) - 15 minute ceiling

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Use dust respirator, especially if dried product forms dust particles. For exposure to vapors from insufficient ventilation, a combined dust/vapor respirator should be worn.

PROTECTIVE GLOVES:

Impervious rubber, neoprene or nitrile.

EYE PROTECTION:

Safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear clothing that prevents product from contacting skin.

WORK / HYGIENIC PRACTICES:

Wash thoroughly with soap and water after using this product, and before eating, drinking or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<p>APPEARANCE AND ODOR Tan paste with mild petroleum odor.</p>	<p>VAPOR PRESSURE NE</p>
<p>pH NE</p>	<p>SPECIFIC GRAVITY (WATER = 1) NE</p>
<p>BOILING POINT 195 °F (90 °C)</p>	<p>SOLUBILITY IN WATER <5% soluble</p>
<p>FLASH POINT NE</p>	<p>VISCOSITY NE</p>
<p>FLAMMABLE LIMITS (% VOL) LEL: NE UEL: NE</p>	<p>VAPOR DENSITY (AIR = 1) <1.0</p>
<p>AUTOIGNITION TEMPERATURE NR</p>	<p>EVAPORATION RATE: Less Than Ether</p>

SECTION 10 - STABILITY AND REACTIVITY

<p>STABILITY STABLE X</p>	<p>CONDITIONS TO AVOID: High temperatures, ignition sources</p>
<p>INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidizers, Sulfuric Acid, Reactive metals, Hydrofluoric acid, hydrogen fluoride gas</p>	
<p>HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon, Silicon, and Nitrogen Oxides under fire conditions</p>	
<p>HAZARDOUS POLYMERIZATION: Does not Occur</p>	<p>CONDITIONS TO AVOID: None related to hazardous polymerization.</p>

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Petroleum Spirits	64742-47-8	>5000 mg/kg (oral, rat)	1400 ppm / 8H (inhalation, rat)
	265-149-8		
Microcrystalline Silicas	1317-95-9	lowest published lethal dose: 90 mg/kg (intravenous, rat)	lowest published toxic concentration: 1 mg/kg (inhalation, rat)
	231-545-4*		
Morpholine	110-91-8	1450 mg/kg (oral, rat)	8000 ppm / 8H (inhalation, rat)
	203-815-1		

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available for this blended product, although petroleum products may affect aquatic environments. Due care is advised and compliance with local, state and federal regulations is required if any discharge to the environment of this product is anticipated. Do not allow product to enter sewage systems or reach ground water or bodies of water.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Product may be incinerated in accordance with Federal, State or Local regulations. Waste product should be considered combustible. Follow all applicable federal, state, and local regulations; end user is responsible for regulatory compliance.

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SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated	
DOT HAZARD CLASS / Pack Group: None REFERENCE: 49CFR172-173 UN / NA IDENTIFICATION NUMBER: None LABEL/HAZARD SYMBOLS: None	IATA HAZARD CLASS / Pack Group: None IMDG HAZARD CLASS: None RID/ADR Dangerous Goods Code: None UN TDG Class / Pack Group: None Hazard Identification Number (HIN): None Australian Dangerous Goods (DG) Code: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION


TSCA (USA - Toxic Substance Control Act): Listed under 8(b).	
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):	
Acute Health: YES	Chronic Health: YES
Fire: NO	Sudden Release of Pressure: NO
Reactive: NO	
SARA 313 REPORTABLE INGREDIENTS:	
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	None
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	YES- CAS #1317-95-9 as silicas.
Canada WHMIS Codes:	D2B
CPR (Canadian Controlled Products Regulations):	Not Listed.
IDL (Canadian Ingredient Disclosure List):	Not Listed.
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):	Listed on CDSL
EINECS (European Inventory of Existing Commercial Chemical Substances):	CAS #1317-95-9 Not Listed -used referent .
Australian Inventory of Chemical Substances: All of the components of this product are listed on the AICS inventory or are exempt from notification requirements.	
Australia HazChem Code	None
WGK Water quality Index:	2

US AND CANADA HAZARD SYMBOL(S) 	EUROPEAN (GHS) HAZARD SYMBOLS 
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EU RISK PHRASES
R21/22 Harmful in contact with skin and if swallowed. **R36/37/38** Irritating to eyes, respiratory system and skin. **R45** May cause cancer. **R52** Harmful to aquatic organisms. **R65** Harmful: may cause lung damage if swallowed. **R66** Repeated exposure may cause skin dryness or cracking.

SECTION 16 - OTHER INFORMATION

Legend:	ACGIH - American Congress of Government Industrial Hygienists CAS - Chemical Abstracts Service EINECS- European Inventory of Existing Commercial Chemical Substances HMIS - Hazardous Materials Identification System IARC - International Agency for Research on Cancer NA - Not Available ND - Not Determined NE - Not Established NR - Not Reported NIOSH - National Institute for Occupational Safety and Health NTP - National Toxicology Program OSHA - Occupational Safety and Health Administration
REVISION SUMMARY:	Revised to ANSI/EU/GHS/Australian Stds 7/17/09 - LB

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.