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MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29CFR 1910.1200

Rev. 09/02/07

TIN/LEAD

Tin/Lead
1%Sn/99%Pb to
99%Sn/1%Pb

CANFIELD TECHNOLOGIES INC
1 CROSSMAN ROAD
SAYREVILLE, NJ 08872

Phone No. 732-316-2100
Infotrac Emergency No. 1-800-535-5053

1. PRODUCT INGREDIENTS

Chemical Name	CAS No.	Weight %	Permissible Air Concen.(mg/cu.m)		SARA Title III Sect.313Chem
			OSHA	ACGIH	
TIN	7440-31-5	0-100	2.0	2.0	NO
LEAD	7439-92-1	0-100	0.05	0.15	YES

No other hazardous material is present in concentration greater than 1%(0.1% for carcinogens)

2. PHYSICAL DATA

Material is SOLID	Appearance and Odor SILVER-WHITE METAL		
Melting Point METAL-179-312°C	Boiling Point >1300°C	Specific Gravity 7.3-11.3	Vapor Density N/A
Solubility in Water INSOLUBLE	Vapor Pressure N/A	Evaporation Rate N/A	PH N/A

3. FIRE AND EXPLOSION DATA

Flash Point METAL N/A CORE-300°F	Flammable Limits N/A	Auto Ignition Temp. N/A
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Unusual Fire and Explosion Hazards
MOLTEN METALS PRODUCE FUME OR VAPOR THAT MAY BE TOXIC AND/OR RESPIRATORY IRRITANTS. REACTS VIOLENTLY WITH OXYDIZING AGENTS.

Fire Extinguishing Agents Recommended
USE CO2 OR DRY CHEMICAL ON SURROUNDING FIRE.

Fire Extinguishing Agents to Avoid
DO NOT USE WATER ON FIRE WHERE MOLTEN METAL IS PRESENT.

Special Fire Fighting Precautions

USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL BODY PROTECTIVE CLOTHING.

4. HEALTH HAZARD INFORMATION

Primary Routes of Entry

INGESTION X INHALATION ABSORPTION

Carcinogenicity

THIS PRODUCT HAS NOT BEEN LISTED AS A SUSPECT CARCINOGEN BY NTP, IARC OR OSHA.

Acute Overexposure(symptoms and effects)

SEVERE SHORT-TERM OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS, CHARACTERIZED BY DROWSINESS, SEIZURES, COMA AND DEATH. IT SHOULD BE RECOGNIZED THAT EXPOSURES OF THIS MAGNITUDE IN AN INDUSTRIAL ENVIRONMENT ARE EXTREMELY UNLIKELY.

Chronic Overexposure(symptoms and effects)

PROLONGED OVEREXPOSURE TO LEAD CAN RESULT IN SYSTEMIC POISONING WITH SYMPTOMS OF METALLIC TASTE, ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION, ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCLE PAIN AND MUSCULAR WEAKNESS AND MAY CAUSE DAMAGE TO THE BLOOD-FORMING, NERVOUS, KIDNEYS AND REPRODUCTIVE SYSTEMS. DAMAGE MAY INCLUDE REDUCED FERTILITY IN BOTH MEN AND WOMEN, DAMAGE TO THE FETUS OF EXPOSED PREGNANT WOMEN, ANEMIA, MUSCULAR WEAKNESS AND KIDNEY DYSFUNCTION.

Medical Conditions Possibly Aggravated by Exposure

DISEASES OF THE BLOOD AND BLOOD FORMING ORGANS, KIDNEYS, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

First Aid Procedures

INHALATION: REMOVE FROM EXPOSURE AND CALL A PHYSICIAN.

SKIN CONTACT:WASH AFFECTED AREAS WITH SOAP AND WATER. IF BURNS SHOULD OCCUR FROM MOLTEN METAL, TREAT FOR BURN AND GET IMMEDIATE MEDICAL ASSISTANCE.

EYE CONTACT: FLUSH EYES WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.

INGESTION: INGEST LARGE QUANTITIES OF WATER, CALL A PHYSICIAN.

5. PRECAUTIONS/PROCEDURES

OVERHEATING OF ALLOY CAN PRODUCE METAL FUMES AND OXIDES. MACHINING OPERATIONS SUCH AS GRINDING, SAWING OR BUFFING CAN GENERATE AIRBORN PARTICULATES IN THE WORK AREA. EXPOSURE LEVELS INDICATED IN SECTION 1 ARE RELEVANT TO THESE AND OTHER OPERATIONS.

Normal Handling

USE OF APPROVED RESPIRATORS IS REQUIRED FOR APPLICATIONS WHERE ADEQUATE VENTILATION CANNOT BE PROVIDED. ACTIVITIES WHICH GENERATE DUST OR FUME SHOULD BE AVOIDED. WHEN MELTED, THE TEMPERATURE SHOULD BE KEPT AS LOW AS POSSIBLE.

Spill or Leak

ANY METHOD THAT KEEPS DUST TO A MINIMUM IS ACCEPTABLE. VACUUMING IS PREFERRED. USE OF APPROVED RESPIRATORY PROTECTION WHERE POSSIBILITY OF DUST/FUME EXPOSURE EXISTS. DO NOT USE COMPRESSED AIR FOR CLEANING.

Personal Hygiene

AVOID INHALATION OR INGESTION. PRACTICE GOOD HOUSEKEEPING AND PERSONAL HYGIENE PROCEDURES. A SHOWER IS RECOMMENDED IF SIGNIFICANT DUST EXPOSURE OCCURS.

Engineering Controls

LOCAL EXHAUST VENTILATION IS RECOMMENDED FOR DUST AND/OR FUME GENERATION OPERATIONS WHERE AIRBORN EXPOSURES MAY EXCEED PERMISSIBLE AIR CONCENTRATIONS.

Storage

GENERAL STORAGE PROCEDURES ACCEPTABLE.

Special Precautions, Procedures, Label Instruction

SPECIAL ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE OSHA LEAD STANDARD (1910.1025) AND RESPIRATOR STANDARD (1910.134) SHOULD AIRBORN EXPOSURES EXCEED THE OSHA ACTION LEVEL OR PEL.

6. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection

WHERE AIRBORN EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSIBLE AIR CONCENTRATIONS, THE MINIMUM RESPIRATORY PROTECTION RECOMMENDED IS A NEGATIVE PRESSURE AIR PURIFYING RESPIRATOR WITH CARTRIDGES THAT ARE NIOSH/MSHA APPROVED AGAINST DUST, FUMES AND MISTS HAVING A TWA NOT LESS THAN 0/05 MG/CU M.

Eyes and Face

SAFETY GLASSES RECOMMENDED WHERE THE POSSIBILITY OF GETTING DUST PARTICLES IN EYES EXISTS OR WHEN HANDLING MOLTEN METAL.

Other Clothing and Equipment

GLOVES AND OTHER PROTECTIVE CLOTHING RECOMMENDED IF SKIN CONTACT IS APPRECIABLE.

7. REACTIVITY DATA

Stability: STABLE

Conditions to Avoid: NOT APPLICABLE

Incompatibility: STRONG OXIDIZERS MAY CAUSE VIOLENT REACTION

Hazardous Decomposition Products: AT TEMPERATURES ABOVE THE MELTING POINT, TOXIC FUMES OR VAPORS MAY BE EMITTED.

8. ENVIRONMENTAL

Regulated by DOT? NO

Waste Disposal Method(DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS)

IF HAZARDOUS UNDER 40 CFR 261, SUBPARTS B AND C, MATERIAL MUST BE TREATED OR DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 254 OR 265. IF NON-HAZARDOUS, MATERIAL SHOULD BE DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 257.

RCRA Status of Unused Material

IF DISCARDED IN UNALTERED FORM, MATERIAL SHOULD BE TESTED TO DETERMINE IF IT MUST BE CLASSIFIED AS A HAZARDOUS WASTE FOR DISPOSAL PURPOSES. UNDER SPECIFIC CIRCUMSTANCES, APPLICATION CAN BE MADE TO THE EPA ADMINISTRATOR TO HAVE A PARTICULAR WASTE DESIGNATED NON-HAZARDOUS.

9. ADDITIONAL INFORMATION

Precautions to be taken in handling and storing: **NONE**

Other Precautions: **NONE**

10. TRANSPORTATION REQUIREMENTS

D.O.T. HAZARD CLASS	N/A
D.O.T. PROPER SHIPPING NAME	*
D.O.T. LABELS REQUIRED	N/A
D.O.T. PLACARD REQUIRED	N/A
UN/NA CODE	N/A

***THIS PRODUCT IS NOT REGULATED BY THE D.O.T. AS SHIPPED. THIS MATERIAL IS ONLY REGULATED BY THE D.O.T. IF IN A POWDER FORM WITH A PARTICLE SIZE LESS THAN 100 MICROMETERS. (0.0040 INCHES)**

11. CERCLA INFORMATION

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE RELEASE REQUIREMENTS OF SECTION 302:

CHEMICAL NAME:	LEAD	
REPORTABLE QUANTITY(LBS)	1.0	CERLA STATUTORY RQ

SPILLS TO THE ENVIRONMENT EXCEEDING THE REPORTABLE QUANTITY IN ANY 24-HOUR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800-424-8802). NO REPORTING OF RELEASES OF THE HAZARDOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASED IS EQUAL TO OR EXCEEDS 100 MICROMETERS (0.400 INCHES).

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Material Safety Data Sheet Mineral oil MSDS

Section 1: Chemical Product and Company Identification

Product Name: Mineral oil
Catalog Codes: BPNOV9
CAS#: 8042-47-5
RTECS: PY8047000
TSCA: TSCA 8(b) inventory: Mineral oil
CI#: Not available.
Synonym: Drakeol (R) 7; White Mineral Oil;
Mineral Oil, light, white
Chemical Name: Not available.

Chemical Formula: Not available.
Creative Craftsmen Co. Inc.
27625 Diehl Road
Warrenville, Illinois 60555-3838

Emergency Telephone No.
888-215-4878
Information Telephone No.
630-836-1353 or 800-323-5668

Section 2: Composition and Information on Ingredients

Composition:
Name CAS # % by Weight
Mineral oil 8042-47-5 100%
Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects:
Slightly hazardous in case of eye contact (irritant), of ingestion. Non-irritant for skin. Non-hazardous in case of inhalation.
Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.



Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact:
Wash with soap and water. Get medical attention if irritation develops.
Serious Skin Contact:
Not available.
Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation:
Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion:

Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: CLOSED CUP: 168.33°C (335°F).

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures**Small Spill:**

Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F).

Section 8: Exposure Controls/Personal Protection**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective Threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Safety glasses. Lab coat.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 5 STEL: 10 (mg/m³) as oil mist Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Transparent water-white liquid)

Odor: Odorless.

Taste: Not available.

Molecular Weight: Varies.

Color: Clear

pH (1% soln/water): Not applicable.

Boiling Point: 310°C (590°F)

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: 0.835 @ 15.6 C (Water = 1)

Vapor Pressure: <0.1 kPa (@ 20°C)

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water. Soluble in hydrocarbons.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatibles

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: May react with strong oxidizing agents

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.

Other Toxic Effects on Humans:

Slightly hazardous in case of ingestion. Non-irritant for skin. Non-hazardous in case of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

Highly refined mineral oils are not classified as human carcinogens. However, related forms (untreated and mildly-treated oils used in metal machining, mule spinning and jute processing) are listed as human carcinogens by both IARC (group 1) and NTP

Special Remarks on other Toxic Effects on Humans:**Potential Health Effects:**

Skin: This product is not expected to cause any skin irritation upon direct single or repeated and prolonged contact. However, similar chemical composition products applied to the skin of lab animals resulted in minimal to slight dermal irritation. **Eyes:** May cause mild (minimal) eye irritation.

Inhalation: May cause respiratory tract irritation with coughing and shortness of breath. This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions.

Caution should be taken to prevent aerosolization or misting. If aspiration occurs, it may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and bluish discoloration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. **Ingestion:** Ingestion is relatively non-toxic unless aspiration occurs. It has laxative properties and may cause gastrointestinal tract discomfort, abdominal cramps, vomiting and diarrhea. Exposure to a large single dose, or repeated small doses by inhalation, aspiration or ingestion leading to aspiration can lead to lipid pneumonia or lipid granuloma. These are low-grade, chronic localized tissue reactions which are not fatal.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Mineral oil

Other Regulations: EINECS. This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: a

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Not applicable. Lab coat.
Not applicable. Safety glasses.

Section 16: Other Information

References: Not available.
Other Special Considerations: Not available.
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