

SERMATECH INTERNATIONAL INCORPORATED

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SermaLube 20 Part 1
Manufacturer's Name: Sermatech International Incorporated
Address: 155 South Limerick Road, Limerick, Pa 19468
Business Telephone #: 610-948-5100
Emergency Telephone #: Chemtrec USA: 800-424-9300 or Chemtrec International: 703-527-3887
MSDS Issue Date: 2/24/04
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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Table with 7 columns: INGREDIENT, CAS #, WT%, ACGIH-TWA, OSHA-PEL, EH40, SEC 313. Rows include Water soluble chromium VI Compounds, Acidic phosphates, and Water.

SermaLube 20 is an inorganic lubricating coating made by mixing SermaLube 20 Part 1 and Part 2 in a ratio of 100 ml Part 1 to 80 gm Part 2.

SECTION 3 - HAZARD IDENTIFICATION

HAZARD OVERVIEW
May cause cancer by inhalation of atomized coating. Harmful if swallowed. May cause sensitization by skin contact. Irritating to eyes and respiratory system.

Potential Health Effects

- EYE: May cause severe irritation
SKIN: Prolonged or repeated skin contact may cause irritation or sensitization.
INGESTION: May be harmful if swallowed.
INHALATION: This product contains chromium VI compounds which are considered to be carcinogenic by inhalation. May cause respiratory irritation.

SECTION 4 - FIRST AID MEASURES

- EYES: Flush with water for 15 minutes. Get medical attention.
SKIN: Immediately flush skin with water, remove contaminated clothing and wash before reuse. Severe skin contact may require medical attention.
INGESTION: If victim is conscious give large amounts of water followed by milk of magnesia. Obtain medical attention.

INHALATION: Remove victim to fresh air. Obtain medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: None

METHOD: Not applicable

FLAMMABLE LIMITS:

Lower flammable limit: N/A

Upper flammable limit: N/A

AUTOIGNITION TEMPERATURE: No data

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may yield phosphoric oxide.

EXTINGUISHING MEDIA: Carbon dioxide, sand, dry chemical.

FIRE FIGHTING INSTRUCTIONS: Wear appropriate protective equipment including self contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb onto sand or vermiculite, then scoop up for disposal. Rinse spill area with water.

LARGE SPILL: Contain spill with inert absorbent. Prevent run off from entering into storm sewers or ditches which lead to natural water ways. Dispose of as hazardous waste according to all local, state, federal regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Use with adequate ventilation. Do not get on skin and clothing.

STORAGE:

Shelf Life: 12 months in original containers. Pot Life when mixed with 20 Part 2 is 5 days.

Storage temp.: 40-90°F (4-32°C).

Storage Equipment: Store inside in original containers.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: See Section 2.

ENGINEERING CONTROLS: Spray booth should have minimum air flow of 150ft²./min.

RESPIRATORY PROTECTION: Do not breath spray. Use a positive pressure supplied air respirator for spray application.

SKIN PROTECTION: Wear acid resistant rubber or plastic gloves and other suitable protective clothing.

EYE PROTECTION: Wear appropriate goggles.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure (MM Hg): 23..7

Vapor Density (Air=1): 0.7 (water vapor)

Evaporation Rate (H20)=1): 1

Appearance/Odor: Red odorless liquid

Solubility In Water: Miscible

Specific Gravity: Approx. 1.30

% Volatile: 75 wt. (water)

VOC Content: none
pH: Approx. 1.5
Boiling point: Approx 220°F (104°C)

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: (CONDITIONS TO AVOID) Stable.

INCOMPATIBILITY:(Materials to avoid) Alkalis and strong oxidizing or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Direct contact with alkalis may produce H₂ gas.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

SKIN: Dermal (rabbit) LD₅₀ for chromic acid is 57 mg/kg.

INGESTION: Oral (rat) LD₅₀ for chromic acid is 52mg/kg.

INHALATION: Acute inhalation (rat) LC₅₀ for chromic acid is 217 mg/m³.

SUBCHRONIC: No data.

CHRONIC/CARCINOGENICITY: Chromic acid is listed on the following: IARC: Human carcinogen, Group 1
NTP: Known human carcinogen

TERATOLOGY: No data.

REPRODUCTION: No data.

MUTAGENICITY: No data.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data.

CHEMICAL FATE INFORMATION: No data.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of as hazardous waste according to all applicable local, state and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Proper shipping Name: High Temperature Coating, not classified.

Hazard Rating (DOT Class): Not regulated.

IATA Rating: Not regulated. (Based on experimental toxicity and corrosivity testing)

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

OSHA: This product is considered hazardous per OSHA Hazard Communication Rule, 29CFR 1910.1200

SECTION 313: HAZARDOUS INGREDIENTS IDENTIFIED IN THE SEC 313 COLUMN OF SECTION 1 ARE TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40CFR372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

TOXIC SUBSTANCES CONTROL ACT (TSCA): The ingredient of this product are all on the TSCA Inventory List.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: Class D, Division 1 & 2

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): All ingredients of this product are on the Domestic Substance List (DSL) and acceptable for use under the provisions of CEPA.

UK CLASSIFICATION FOR SUPPLY: Toxic, Irritant

R22: Harmful if swallowed

R36/37: Irritating to eyes and respiratory system

R43: May cause sensitization by skin contact

R49: May cause cancer by inhalation

S23: Do not breath spray

S24: Avoid skin contact

S26: In case of contact with eyes immediately rinse with water and seek medical advise

S36: Wear suitable protective clothing

S45: In case of accident or if you feel unwell, seek medical advise immediately (Show the label where possible)

S51: Use only in well ventilated areas, wear suitable respiratory equipment.

STATE REGULATIONS:

CALIFORNIA PROP65: This products contains water soluble chromium VI compounds, a chemical known to the state of California to cause cancer.

VOLATILE ORGANIC COMPOUNDS (VOC) This product contains no volatile organic compounds

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SECTION 16 - OTHER INFORMATION

SermaLube 20 is an inorganically bonded molybdenum disulfide/graphite coating. It is entirely inorganic and consists of mixing powders (part 2) in a water based acidic binder (Part 1) in a ratio of 100 ml Part 1 to 80 gm Part 2. Properties of the mixed coating reflect a combination of Sermalube 20 Part 1 and Part 2.

HMIS RATINGS:

Health

Flammability

Reactivity

3

0

1

0=Minimal

1=Slight

2=Moderate

3=Serious

4=Severe

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