

MFA 2500 (Rev 1-24-24)

SDS Number: L2500H

Revision Date: 1/24/2024

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
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Harahan, LA 70123

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Product Identifier: MFA 2500 (Rev 1-24-24)
SDS Number: L2500H
Product Code: L2500
Revision Date: 1/24/2024
Product Use: Metal Free Anti-Seize

Emergency Telephone Number:
INFOTRAC
1-800-535-5053

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HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 5 Oral
Health, Skin corrosion/irritation, 3
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H303 - May be harmful if swallowed
H316 - Causes mild skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P314 - Get Medical advice/attention if you feel unwell.
P308+313 - IF exposed or concerned: Get medical advice/attention.

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P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P337 - If eye irritation persists: Get medical advice/attention.
 P403+233 - Store in a well ventilated place. Keep container tightly closed.
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Ingestion, eye, inhalation, skin absorption
Inhalation: May cause irritation to the respiratory tract. Inhalation of dusts at levels above recommended exposure limits may cause a metallic or sweet taste.
Skin Contact: Prolonged contact may cause irritation.
Eye Contact: Prolonged or repeated contact may cause mechanical irritation, tearing, and redness. May result in corneal injury.
Ingestion: No hazard expected in normal industrial use. May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components. Repeated or prolonged inhalation of graphite or carbon dusts may cause pulmonary fibrosis, emphysema, and pneumoconiosis. The severity of these effects is greatly influenced by the presence of other harmful mineral dusts, most notably crystalline silica. This product contains encapsulated metal powder containing copper and zinc and encapsulated silica. No exposure to free metal powder or free, respirable silica is anticipated during normal use of this product. Inhalation of free, respirable silica may cause silicosis or other serious delayed lung injury. Metal powder and/or silica may be released by grinding or machining of cured compound or coated materials. Repeated or prolonged exposure to metal dust may cause metal-fume fever, metallic taste, and discoloration of the skin and hair. Use NIOSH-approved dust/mist respirator when grinding or machining coated items.

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COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
64742-52-5	55%	Distillates, petroleum, hydrotreated heavy naphthenic
7782-42-5	15%	Graphite
112945-52-5	1%	Silica, amorphous treated

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FIRST AID MEASURES

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical aid.
Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Get medical attention if irritation persists. Wash contaminated clothing separately before reuse.
Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical aid.
Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Call a Poison Control center.

Symptoms may not be readily apparent. Get medical advice/attention.

Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

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FIRE FIGHTING MEASURES

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Flammability: Non-Flammable
Flash Point: 302 Deg. F. (150 C)
Flash Point Method: Pensky-Martens Closed Cup (PMCC)
Extinguishing media: Use water spray, dry chemical, carbon dioxide or chemical foam. If water is used, fog nozzles are preferred.

Special Fire fighting procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode in the heat of the fire. Use water spray to keep fire-exposed containers cool.

Unusual Fire & Explosion Hazards: High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.

6	ACCIDENTAL RELEASE MEASURES
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Use proper personal protective equipment as indicated in Section 8.

Do not empty into drains. Material that cannot be recovered or reused should be disposed of in accordance with all Federal, State, and Local regulations.

Spills/Leaks: Provide ventilation. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

7	HANDLING AND STORAGE
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Handling Precautions: Avoid contact with skin and eyes. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.

Do not reuse empty containers without first having them commercially cleaned or reconditioned. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

Storage Requirements: Store in a cool, dry, well-ventilated area away from incompatible substances. Store away from heat. Store in a tightly closed container. Keep container closed when not in use. Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practices.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Ventilation Requirement: Use adequate general or local exhaust ventilation to minimize exposure levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment: Respiratory Protection: Not required under normal use conditions. Avoid breathing vapors or dusts. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.
 Protective gloves: Not required under normal use conditions. Solvent resistant gloves required for prolonged or repeated contact.
 Eye protection: Safety glasses/Goggles and/or face shield should be worn.

Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron.

Hygienic work practices: Wash with soap and water before handling food.

Graphite cas#:(7782-42-5) [15%]

Components with workplace control parameters

TWA	15Million particles per cubic foot of air, based on impinger samples	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
		(OSHA) - Table Z-3 Mineral Dusts

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counted by light-field techniques.

mppcf X 35.3 = million particles per cubic meter = particles per c.c

 TWA 2.5 mg/m³ USA. NIOSH Recommended
 Exposure Limits

Also see specific listing for Graphite (synthetic).

 TWA 10 mg/m³ USA. OSHA - TABLE Z-1 Limits for
 Air Contaminants - 1910.1000

 TWA 5 mg/m³ USA. OSHA - TABLE Z-1 Limits for
 Air Contaminants - 1910.1000

 TWA 15 mg/m³ USA. Occupational Exposure Limits
 (OSHA) - Table Z-1 Limits for Air
 Contaminants

 TWA 5 mg/m³ USA. Occupational Exposure Limits
 (OSHA) - Table Z-1 Limits for Air
 Contaminants

 TWA 2 mg/m³ USA. ACGIH Threshold Limit Values
 (TLV)

Pneumoconiosis

 TWA 2.5 mg/m³ USA. OSHA - TABLE Z-1 Limits for
 Air Contaminants - 1910.1000

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Metallic, Grayish	Odor:	Slight. Petroleum-like.
Physical State:	Paste	Solubility:	NIL in water
Spec Grav./Density:	(H20=1): 1.21	Percent Volatile:	Not available
Boiling Point:	932 Deg. F. (500 C)	Flash Point:	302 Deg. F. (150 C)
Vapor Pressure:	Not available	Vapor Density:	Heavier than air
Evap. Rate:	Slower than ether	Auto-Ignition Temp:	Not available

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STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	High temperatures, Incompatible materials.
Materials to Avoid:	Strong oxidizing agents, strong acids, strong bases, nitrates, nitrite, chlorinated hydrocarbons, magnesium, chlorides. Diborane. Palladium. Selenium. Manganese. Potassium chlorate. Sodium carbonate. Sulfates.
Hazardous Decomposition:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not occur

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TOXICOLOGICAL INFORMATION

Data summary for the components are as follows:

 silica, amorphous treated (CAS 112945-52-5)
 Acute

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Oral LD50 3160 mg/kg (Rat)

Distillates, petroleum,hydrotreated heavy naphthenic (CAS 64742-52-5)
Oral LD50 >5 mg/kg (Rat)
Dermal 500.0 mg Standard Draize Test, (Rabbit)

This product contains encapsulated silicon dioxide (quartz, silica). No exposure to free, respirable silica is anticipated during normal use of this product. Free, respirable silica has been listed as a confirmed human carcinogen by NTP and IARC. Inhalation of free, respirable silica may cause silicosis or other serious delayed lung injury. Silica may be released by grinding or machining of coated materials. Use NIOSH-approved dust/mist respirator when grinding or machining coated items.

Graphite cas#:(7782-42-5) [15%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - female - > 2,000 mg/kg (OECD Test Guideline 423)

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation: - mouse Did not cause sensitisation on laboratory animals. (OECD Test Guideline 429)

Germ cell mutagenicity: in vitro assay S. typhimurium Result: negative

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

Repeated dose toxicity - rat - male - Feed - No observed adverse effect level - 813 mg/kg RTECS: MD9659600

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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12	ECOLOGICAL INFORMATION
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No information available.

Graphite cas#:(7782-42-5) [15%]

Information on ecological effects

Toxicity:

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h.
(OECD Test Guideline 203)

Toxicity to daphnia and static test EC50 - Daphnia magna (water flea) - > 100 mg/l - 48 h.
other aquatic (OECD Test Guideline 202) invertebrates

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h.
(OECD Test Guideline 201)

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13	DISPOSAL CONSIDERATIONS
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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 262. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

Dispose of according to local, state, or federal regulations.

14	TRANSPORT INFORMATION
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Proper Shipping Name: Non regulated.

15	REGULATORY INFORMATION
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[%] RQ (CAS#) Substance - Reg Codes

[55%] Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5) NJHS, TSCA

[15%] Graphite (7782-42-5) MASS, OSHAWAC, PA, TSCA, TXAIR

[1%] silica, amorphous treated (112945-52-5) MASS, OSHAWAC, PA, TSCA, TXAIR

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

NJHS = NJ Right-to-Know Hazardous Substances

TSCA = Toxic Substances Control Act

MASS = MA Massachusetts Hazardous Substances List

OSHA = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

N/A = Not available N/D = Not determined

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