

NK 2600 (Rev 1-23-24)

SDS Number: L2600I

Revision Date: 1/23/2024

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
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Product Identifier: NK 2600 (Rev 1-23-24)
SDS Number: L2600I
Product Code: L2600
Revision Date: 1/23/2024
Product Use: Nickel 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, Respiratory or skin sensitization, 1 Skin
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3
Health, Carcinogenicity, 1
Health, Specific target organ toxicity - Repeated exposure, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H303 - May be harmful if swallowed
H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H350 - May cause cancer of the lungs and nasal cavity via inhalation of powder.
H372 - Causes damage to organs skin and/or lungs through prolonged or repeated exposure

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
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.
P272 - Contaminated work clothing should not be allowed out of the workplace.

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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.
 P302+352 - IF ON SKIN: Wash with plenty of soap and water.
 P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
 P363 - Wash contaminated clothing before reuse.
 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.
 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.
 P321 - Specific treatment (see Section 4 reference to supplemental first aid instruction- if immediate measures are required.)
 P405 - Store locked up.
 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 nickel powder and encapsulated silica. No exposure to free, respirable nickel 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. Nickel has been listed as a possible human cancer hazard by NTP and IARC. IARC has not stated with certainty which forms of nickel are human carcinogens. Rodents exposed to high levels of nickel powder via inhalation did not develop increased incidences of malignant tumors. Silica may be released by grinding or machining of coated materials. 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	60%	Distillates, petroleum, hydrotreated heavy naphthenic
7440-02-0	20%	Nickel
7782-42-5	17%	Graphite
112945-52-5	2%	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.

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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

Flammability: NA

Flash Point: 325 Deg. F. (163 C)

Flash Point Method: Cleveland Open Cup (COC)

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, Nickel will react slowly with hydrochloric and sulfuric acids, and is somewhat more reactive with nitric acid. Hydrogen gas may be liberated under certain conditions and this can form an explosive mixture with air if not dissipated.

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ACCIDENTAL RELEASE MEASURES

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.

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HANDLING AND STORAGE

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.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

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

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

Nickel cas#:(7440-02-0) [20%]

Components with workplace control parameters

TWA 1.5 mg/m3 USA. ACGIH Threshold Limit Values
(TLV)

Dermatitis

Pneumoconiosis

Not suspected as a human carcinogen

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

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

TWA 0.015 mg/m3 USA. NIOSH Recommended
Exposure Limits

Potential Occupational Carcinogen

See Appendix A

Graphite cas#:(7782-42-5) [17%]

Components with workplace control parameters

TWA 15Million particles per
particles per USA. Occupational Exposure Limits
(OSHA) - Table Z-3 Mineral Dusts
(OSHA) - Table Z-3 Mineral Dusts

Millions of particles per cubic foot of air, based on impinger samples
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

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(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): 1.24	Percent Volatile:	Not available
Boiling Point:	500 Deg. F. (260 C)	Flash Point:	325 Deg. F. (163 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

Reactivity:	Nickel will react slowly with hydrochloric and sulfuric acids, and is somewhat more reactive with nitric acid. Hydrogen gas may be liberated under certain conditions and this can form an explosive mixture with air if not dissipated.
Chemical Stability:	Stable
Conditions to Avoid:	High temperatures, Incompatible materials.
Materials to Avoid:	Sulfur and Sulfite compounds, fluorine, ammonium nitrate, hydrazine, ammonia, phosphorous, selenium, perchlorates, performic acid. Nickel will react slowly with hydrochloric and sulfuric acids, and is somewhat more reactive with nitric acid. Hydrogen gas may be liberated under certain conditions and this can form an explosive mixture with air if not dissipated.
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

Oral LD50 3160 mg/kg (Rat)

Distillates, petroleum,hydrotreated heavy naphthenic (CAS 64742-52-5)

Acute

Oral LD50 >5 mg/kg (Rat)

Dermal 500.0 mg Standard Draize Test, (Rabbit)

This product contains encapsulated nickel powder and encapsulated silica. No exposure to free, respirable nickel 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. Nickel has been listed as a possible human cancer hazard by NTP and IARC. IARC has not stated with certainty which forms of nickel are human carcinogens. Rodents exposed to high levels of nickel powder via inhalation did not develop increased incidences of malignant tumors. Silica may be released by grinding or machining of coated materials. Use NIOSH-approved dust/mist respirator when grinding or machining coated items.

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Nickel cas#:(7440-02-0) [20%]

Information on toxicological effects

Acute toxicity:

Oral LD50 5.0 mg/kg (Guinea pig)

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 1 - Group 1: Carcinogenic to humans (Aluminium)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Nickel)

NTP: Reasonably anticipated to be a human carcinogen (Nickel)

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:

RTECS: Not available

sensitising effects, Inhalation may provoke the following symptoms:, irritant effects, Cough, sneezing, Lachrymation
Stomach - Irregularities - Based on Human Evidence

Graphite cas#:(7782-42-5) [17%]

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)

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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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ECOLOGICAL INFORMATION

Data summary for the components are as follows:

Nickel cas#:(7440-02-0) [20%]

Information on ecological effects

Toxicity:

Fish LC50 6.30 ppm 96 hrs, Striped Bass (*Morone saxatilis*)

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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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Graphite cas#:(7782-42-5) [17%]

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

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DISPOSAL CONSIDERATIONS

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.

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TRANSPORT INFORMATION

Proper Shipping Name: Non regulated.

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REGULATORY INFORMATION

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

[60%] Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5) NJHS, TSCA

[20%] RQ(100LBS), Nickel (7440-02-0) CERCLA, EPCRAWPC, GADSL, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TSCA

[17%] Graphite (7782-42-5) MASS, OSHAWAC, PA, TSCA, TXAIR

[2%] silica, amorphous treated (112945-52-5) MASS, OSHAWAC, PA, TSCA, TXAIR

WARNING

This product can expose you to chemicals including Nickel (Metallic), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Regulatory Code Legend

RQ = Reportable Quantity

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NJHS = NJ Right-to-Know Hazardous Substances
TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
EPCRAWPC = EPCRA Water Priority Chemicals
GADSL = Global Automotive Declarable Substance List (GADSL)
MASS = MA Massachusetts Hazardous Substances List
NRC = Nationally Recognized Carcinogens
OSHA WAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
PRIPOL = Clean Water Act Priority Pollutants
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICPOL = Clean Water Act Toxic Pollutants
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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