

SAFETY DATA SHEET

1. Identification

| Product identifier | Nickel Anti-Seize & Lubricating Compound | l - 16 oz |
|--|--|---|
| Other means of identification | | |
| Product Code | No. SL35913 (Item# 1007948) | |
| Recommended use | Anti-seize and lubricating compound | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/ | Distributor information | |
| Manufactured or sold by: | | |
| Company name | CRC Industries, Inc. | |
| Address | 885 Louis Dr. | |
| | Warminster, PA 18974 US | |
| Telephone | | |
| General Information | 215-674-4300 | |
| Technical Assistance | 800-521-3168 | |
| Customer Service | 800-272-4620 | |
| 24-Hour Emergency | 800-424-9300 (US) | |
| (CHEMTREC) Website | www.crcindustries.com | |
| | | |
| 2. Hazard(s) identification | | |
| Physical hazards | Not classified. | |
| Health hazards | Sensitization, skin | Category 1 |
| | Specific target organ toxicity, repeated exposure | Category 1 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |
| | | |
| Signal word | Danger | |
| Hazard statement | May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure. | |
| Precautionary statement | | |
| Prevention | Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. | |
| Response | If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Get medical advice/attention if you feel unwell. | |
| Storage | Store away from incompatible materials. | |
| Disposal | Dispose of contents/container in accordance v | with local/regional/national regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. | |
| Supplemental information | None. | |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|------------|---------|
| distillates (petroleum), solvent-refined heavy naphthenic | | 64741-96-4 | 60 - 70 |
| graphite | | 7782-42-5 | 10 - 20 |
| nickel | | 7440-02-0 | 5 - 10 |
| aluminum | | 7429-90-5 | 3 - 5 |
| amorphous silica | | 7631-86-9 | 3 - 5 |

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

| 4. First-aid measures | |
|--|--|
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

| Suitable extinguishing media | Carbon dioxide (CO2). Water Spray or Fog. Foam. |
|--|--|
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|---|--|
| Methods and materials for containment and cleaning up | The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. |
| | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 7. Handling and storage | |
| Precautions for safe handling | Do not breathe dust. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, see the product label. |
| Conditions for safe storage, including any incompatibilities | Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS). |

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) |
|---|
|---|

| Components | Туре | Value | Form |
|--|-----------------------|------------------------|--------------------------------|
| aluminum (CAS 7429-90-5) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | PEL | 5 mg/m3 | Mist. |
| | | 2000 mg/m3 | |
| | | 500 ppm | |
| graphite (CAS 7782-42-5) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| nickel (CAS 7440-02-0) | PEL | 1 mg/m3 | |
| US. OSHA Table Z-3 (29 CFR 1910 | .1000) | - | |
| Components | Туре | Value | Form |
| aluminum (CAS 7429-90-5) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| amorphous silica (CAS 7631-86-9) | TWA | 0.8 mg/m3 | |
| | | 20 mppcf | |
| graphite (CAS 7782-42-5) | TWA | 15 mppcf | |
| US. ACGIH Threshold Limit Value Components | s Type | Value | Form |
| aluminum (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |
| distillates (petroleum), | TWA | 5 mg/m3 | Inhalable fraction. |
| solvent-refined heavy naphthenic (CAS 64741-96-4) | | C | |
| graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |
| nickel (CAS 7440-02-0) | TWA | 1.5 mg/m3 | Inhalable fraction. |
| US. NIOSH: Pocket Guide to Chen Components | nical Hazards Type | Value | Form |
| aluminum (CAS 7429-90-5) | TWA | 5 mg/m3 | |
| aiuminum (UAU / 429-90-0) | | 5 mg/m3 | Respirable. Welding fume or |
| | | ว เมษุ/มาร | pyrophoric powder. |
| | | 10 mg/m3 | Total |
| | TWA | 6 mg/m3 | |
| | | | |
| 7631-86-9) distillates (petroleum), solvent-refined heavy naphthenic (CAS | Ceiling | 1800 mg/m3 | |
| 7631-86-9) distillates (petroleum), solvent-refined heavy naphthenic (CAS | | 1800 mg/m3 10 mg/m3 | Mist. |
| amorphous silica (CAS 7631-86-9) distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) graphite (CAS 7782-42-5) | Ceiling | C C | Mist. Respirable. |
| 7631-86-9) distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | Ceiling STEL | 10 mg/m3 | |

| Exposure guidelines | Occupational Exposure Limits are not relevant to the current physical form of the product. | |
|-----------------------------------|---|--|
| Appropriate engineering controls | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. | |
| Individual protection measures, | such as personal protective equipment | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). | |
| Skin protection | | |
| Hand protection | Wear protective gloves such as: Nitrile. | |
| Other | Wear appropriate chemical resistant clothing. | |
| Respiratory protection | If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Wear a dust mask if dust is generated above exposure limits. Air monitoring is needed to determine actual employee exposure levels. | |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. | |
| General hygiene considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. | |

9. Physical and chemical properties

| Appearance | | |
|--|--------------------------------------|--|
| Physical state | Solid. | |
| Form | Paste. | |
| Color | Silver. | |
| Odor | Petroleum. | |
| Odor threshold | Not available. | |
| рН | Not available. | |
| Melting point/freezing point | 1220 °F (660 °C) estimated | |
| Initial boiling point and boiling range | 680 °F (360 °C) estimated | |
| Flash point | 425 °F (218.3 °C) Cleveland Open Cup | |
| Evaporation rate | Not available. | |
| Flammability (solid, gas) | Not available. | |
| Upper/lower flammability or explosive limits | | |
| Flammability limit - lower (%) | Not available. | |
| Flammability limit - upper (%) | Not available. | |
| Vapor pressure | 330055.3 hPa estimated | |
| Vapor density | Not available. | |
| Relative density | 1.18 | |
| Solubility(ies) | | |
| Solubility (water) | Insoluble. | |
| Partition coefficient (n-octanol/water) | Not available. | |
| Auto-ignition temperature | 500 °F (260 °C) estimated | |
| Decomposition temperature | Not available. | |
| Percent volatile | 33.3 % estimated | |

10. Stability and reactivity

| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
|--------------------|---|
| Chemical stability | Material is stable under normal conditions. |

| Possibility of hazardous reactions | No dangerous reaction known under co | No dangerous reaction known under conditions of normal use. | |
|--|--|---|--|
| Conditions to avoid | Keep away from heat, hot surfaces, spa incompatible materials. | arks, open flames and other ignition sources. Contact with | |
| Incompatible materials | Oxidizing material. | • | |
| Hazardous decomposition products | Carbon oxides. Metal oxides. | | |
| 11. Toxicological inform | nation | | |
| Information on likely routes of | f exposure | | |
| Inhalation | No adverse effects due to inhalation are | e expected. | |
| Skin contact | May cause an allergic skin reaction. | | |
| Eye contact | Direct contact with eyes may cause tem | porary irritation. | |
| Ingestion | Expected to be a low ingestion hazard. | | |
| Symptoms related to the physical, chemical and toxicological characteristics | May cause an allergic skin reaction. De | rmatitis. Rash. | |
| Information on toxicological e | effects | | |
| Acute toxicity | Not known. | | |
| Product | Species | Test Results | |
| Nickel Anti-Seize & Lubricating | Compound - 16 oz | | |
| Acute | | | |
| Oral | | | |
| LD50 | Rat | 121500 mg/kg Acute Toxicity Estimate (ATE) | |
| Components | Species | Test Results | |
| aluminum (CAS 7429-90-5) | | | |
| <u>Acute</u> | | | |
| Oral | | | |
| LD50 | Rat | > 15900 mg/kg | |
| amorphous silica (CAS 7631-86 | j-9) | | |
| Acute | | | |
| Oral | 5.4 | 00700 # | |
| LD50 | Rat | > 22500 mg/kg | |
| | efined heavy naphthenic (CAS 64741-96-4) | | |
| <u>Acute</u> | | | |
| Dermal LD50 | Rabbit | | |
| | Rabbit | > 5000 mg/kg | |
| Oral LD50 | Rat | > 5000 mg/kg | |
| graphite (CAS 7782-42-5) | Rat | > 5000 mg/kg | |
| | | | |
| <u>Acute</u> Oral | | | |
| LD50 | Rat | > 10000 mg/kg | |
| nickel (CAS 7440-02-0) | | | |
| <u>Acute</u> | | | |
| | | | |
| Dermal | | | |
| Dermal LD50 | Rat | > 9000 mg/kg | |
| LD50 | | | |
| | Rat Prolonged skin contact may cause temp Direct contact with eyes may cause tem | porary irritation. | |
| LD50 Skin corrosion/irritation Serious eye damage/eye | Prolonged skin contact may cause temp Direct contact with eyes may cause tem | porary irritation. | |

| Skin sensitization | May cause an allergic skin reaction. | |
|--|--|--|
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | Not classifiable as to carcinogenicity to humans. | |
| IARC Monographs. Overall | Evaluation of Carcinogenicity | |
| 1 (| norphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans. Specifically Regulated Substances (29 CFR 1910.1001-1052) | |
| Not regulated. US. National Toxicology Pro Not listed. | ogram (NTP) Report on Carcinogens | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. | |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - repeated exposure | Causes damage to organs through prolonged or repeated exposure. | |
| Aspiration hazard | Not an aspiration hazard. | |
| Chronic effects | Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects. | |

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results | |
|-----------------------------|---|---|----------------------------|--|
| aluminum (CAS 7429-90-5) | | | | |
| Aquatic | | | | |
| Fish | LC50 | Grass carp, white amur (Ctenopharyngodon idella) | 0.21 - 0.31 mg/l, 96 hours | |
| graphite (CAS 7782-42-5) | | | | |
| Aquatic | | | | |
| Acute | | | | |
| Fish | LC50 | Fish | > 1800 mg/l, 96 hours | |
| nickel (CAS 7440-02-0) | | | | |
| Aquatic | | | | |
| Fish | LC50 | Pumpkinseed (Lepomis gibbosus) | 8 mg/l, 96 hours | |
| Acute | | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 100 mg/l, 48 hours | |
| rsistence and degradability | No data is available on the degradability of any ingredients in the mixture. | | | |
| paccumulative potential | No data available. | | | |
| bility in soil | No data available. | | | |
| her adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. | | | |
| 3. Disposal considerati | ons | | | |
| zardous waste code | Not regulat | ted. | | |

Hazardous waste codeNot regulated.Disposal instructionsThis product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty
containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste
disposal site. Dispose in accordance with all applicable regulations.Contaminated packagingEmpty containers should be taken to an approved waste handling site for recycling or disposal.
Since emptied containers may retain product residue, follow label warnings even after container is
emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated. US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance nickel (CAS 7440-02-0) CERCLA Hazardous Substance List (40 CFR 302.4) nickel (CAS 7440-02-0) **CERCLA Hazardous Substances: Reportable quantity** nickel (CAS 7440-02-0) 100 LBS Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List nickel (CAS 7440-02-0) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. (SDWA) Food and Drug Not regulated. Administration (FDA) Superfund Amendments and Reauthorization Act of 1986 (SARA) Respiratory or skin sensitization **Classified hazard** Specific target organ toxicity (single or repeated exposure) categories SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical SARA 313 (TRI reporting) **Chemical name CAS** number % by wt. nickel 7440-02-0 5 - 10 **US state regulations** US. New Jersey Worker and Community Right-to-Know Act aluminum (CAS 7429-90-5) graphite (CAS 7782-42-5) nickel (CAS 7440-02-0) **US. Massachusetts RTK - Substance List** aluminum (CAS 7429-90-5) amorphous silica (CAS 7631-86-9) distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) graphite (CAS 7782-42-5) nickel (CAS 7440-02-0) US. Pennsylvania Worker and Community Right-to-Know Law aluminum (CAS 7429-90-5)

amorphous silica (CAS 7631-86-9)

graphite (CAS 7782-42-5) nickel (CAS 7440-02-0)

US. Rhode Island RTK

aluminum (CAS 7429-90-5) distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) graphite (CAS 7782-42-5) nickel (CAS 7440-02-0)

California Proposition 65



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

| California Proposition 6 | 65 - CRT: Listed date/Car | cinogenic substance | | | |
|--|---|--|----------------------------|--|--|
| nickel (CAS 7440-02 California Proposition 6 | 2-0) 65 - CRT: Listed date/Dev | Listed: October 1, 1989 /elopmental toxin | | | |
| | ounds) (CAS s~ni~d) 65 - CRT: Listed date/Ma | Listed: October 26, 2018 | | | |
| nickel (soluble comp | ounds) (CAS s~ni~d) | Listed: October 26, 2018 Consumer Products Regulations (Cal. Co | de Regs, tit. 22, 69502.3, | | |
| aluminum (CAS 742 distillates (petroleum nickel (CAS 7440-02 | n), solvent-refined heavy n | aphthenic (CAS 64741-96-4) | | | |
| Volatile organic compounds (V0 EPA | DC) regulations | | | | |
| VOC content (40 CFR 51.100(s)) | 1.8 % | | | | |
| Consumer products (40 CFR 59, Subpt. C) | Not regulated | | | | |
| State | | | | | |
| Consumer products | This product is regulated as an Anti-seize Lubricant (non-aerosol). This product is compliant for use in all 50 states. | | | | |
| VOC content (CA) | 1.8 % | | | | |
| VOC content (OTC) | 1.8 % | | | | |
| International Inventories | | | | | |
| Country(s) or region | Inventory name | | On inventory (yes/no)* | | |
| Australia | Australian Inventory of (| Chemical Substances (AICS) | No | | |
| Canada | Domestic Substances List (DSL) | | No | | |
| Canada | Non-Domestic Substand | ces List (NDSL) | No | | |
| China | Inventory of Existing Chemical Substances in China (IECSC) | | No | | |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | | No | | |
| Europe | European List of Notifie | d Chemical Substances (ELINCS) | No | | |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | | No | | |
| Korea | Existing Chemicals List (ECL) | | No | | |
| New Zealand | New Zealand Inventory | | No | | |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | | No | | |
| Taiwan | Taiwan Chemical Subst | ance Inventory (TCSI) | No | | |
| United States & Puerto Rico | Toxic Substances Contr | ol Act (TSCA) Inventory | No | | |
| *A "Yes" indicates that all compo | nents of this product comply v | with the inventory requirements administered by the | e governing country(s) | | |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| Issue date | 08-19-2019 |
|-------------|--------------|
| Prepared by | Allison Yoon |
| Version # | 01 |

Disclaimer

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Revision information

This document has undergone significant changes and should be reviewed in its entirety.