



SAFETY DATA SHEET

1. Identification

| | | |
|---|---|--|
| Product identifier | Nickel Anti-Seize & Lubricating Compound - 226 g | |
| Other means of identification | | |
| Product Code | No. 72911 (Item# 1006137) | |
| Recommended use | Anti-seize and lubricating compound | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Manufactured or sold by: | | |
| Company name | CRC Canada Co. | |
| Address | 83 Galaxy Blvd Unit 35 - 37 Toronto, ON M9W 5X6 Canada | |
| Telephone | | |
| General Information | 416-847-7750 | |
| 24-Hour Emergency (CHEMTREC) | 800-424-9300 (Canada) | |
| Website | www.crc-canada.ca | |
| E-mail | Support.CA@crcindustries.com | |

2. Hazard identification

| | | |
|------------------------------|---|------------|
| Physical hazards | Not classified. | |
| Health hazards | Sensitization, skin | Category 1 |
| | Specific target organ toxicity, repeated exposure | Category 1 |
| Environmental 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 | Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should 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. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell. | |
| Storage | Store away from incompatible materials. | |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. | |
| Other hazards | 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 - 80 |
| graphite | | 7782-42-5 | 10 - 30 |
| nickel | | 7440-02-0 | 5 - 10 |
| aluminum | | 7429-90-5 | 1 - 5 |
| amorphous silica | | 7631-86-9 | 1 - 5 |

The exact percentage (concentration) of composition has been withheld as a trade secret. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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. |
| Specific methods | 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. Prevent product from entering drains. 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. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |

7. Handling and storage

| | |
|---|---|
| Precautions for safe handling | 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. |
| Conditions for safe storage, including any incompatibilities | Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--|------|-----------|----------------------|
| aluminum (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | TWA | 5 mg/m3 | Inhalable fraction. |
| graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |
| nickel (CAS 7440-02-0) | TWA | 1.5 mg/m3 | Inhalable fraction. |

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components | Type | Value | Form |
|--|------|-----------|--------------------|
| aluminum (CAS 7429-90-5) | TWA | 5 mg/m3 | Pyrophoric powder. |
| | | 10 mg/m3 | Dust. |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | STEL | 10 mg/m3 | Mist. |
| | | TWA | 5 mg/m3 |
| graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable. |
| nickel (CAS 7440-02-0) | TWA | 1.5 mg/m3 | |

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components | Type | Value | Form |
|----------------------------------|------|------------|-------------|
| aluminum (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable. |
| amorphous silica (CAS 7631-86-9) | TWA | 4 mg/m3 | Total |
| | | 1.5 mg/m3 | Respirable. |
| graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable. |
| nickel (CAS 7440-02-0) | TWA | 0.05 mg/m3 | |

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components | Type | Value | Form |
|--|------|-----------|----------------------|
| aluminum (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | TWA | 5 mg/m3 | Inhalable fraction. |
| graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |
| nickel (CAS 7440-02-0) | TWA | 1.5 mg/m3 | Inhalable fraction. |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value | Form |
|--------------------------|------|---------|----------------------|
| aluminum (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |
| graphite (CAS 7782-42-5) | TWA | 2 mg/m3 | Respirable fraction. |
| nickel (CAS 7440-02-0) | TWA | 1 mg/m3 | Inhalable fraction. |

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components | Type | Value | Form |
|----------------------------------|------|----------|------------------|
| aluminum (CAS 7429-90-5) | TWA | 5 mg/m3 | Welding fume. |
| | | 10 mg/m3 | |
| amorphous silica (CAS 7631-86-9) | TWA | 6 mg/m3 | Respirable dust. |

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components | Type | Value | Form |
|--|------|----------------------|------------------|
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | STEL | 10 mg/m ³ | Mist. |
| | TWA | 5 mg/m ³ | Mist. |
| graphite (CAS 7782-42-5) | TWA | 2 mg/m ³ | Respirable dust. |
| nickel (CAS 7440-02-0) | TWA | 1 mg/m ³ | |

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

| Components | Type | Value | Form |
|--|-----------|-----------------------|----------------------|
| aluminum (CAS 7429-90-5) | 15 minute | 20 mg/m ³ | Dust. |
| | | 10 mg/m ³ | Pyrophoric powder. |
| | 8 hour | 5 mg/m ³ | Pyrophoric powder. |
| | | 10 mg/m ³ | Dust. |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | 15 minute | 10 mg/m ³ | |
| | 8 hour | 5 mg/m ³ | |
| graphite (CAS 7782-42-5) | 15 minute | 4 mg/m ³ | Respirable fraction. |
| | 8 hour | 2 mg/m ³ | Respirable fraction. |
| nickel (CAS 7440-02-0) | 15 minute | 3 mg/m ³ | Inhalable fraction. |
| | 8 hour | 1.5 mg/m ³ | Inhalable fraction. |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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.

pH

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. |
| Viscosity | Not available. |
| Other information | |
| 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 conditions of normal use. |
| Conditions to avoid | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| Incompatible materials | Oxidizing material. |
| Hazardous decomposition products | Carbon oxides. Metal oxides. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | No adverse effects due to inhalation are expected. |
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Expected to be a low ingestion hazard. |

Symptoms related to the physical, chemical and toxicological characteristics May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

| Product | Species | Test Results |
|--|----------------|--|
| Nickel Anti-Seize & Lubricating Compound - 226 g | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 121500 mg/kg Acute Toxicity Estimate (ATE) |

| Components | Species | Test Results |
|--|--|---------------|
| aluminum (CAS 7429-90-5) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 15900 mg/kg |
| amorphous silica (CAS 7631-86-9) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 22500 mg/kg |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 5000 mg/kg |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| graphite (CAS 7782-42-5) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 10000 mg/kg |
| nickel (CAS 7440-02-0) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 9000 mg/kg |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. | |
| Respiratory or skin sensitization | | |
| Canada - Alberta OELs: Irritant | | |
| aluminum (CAS 7429-90-5) | Irritant | |
| Respiratory sensitization | Not a respiratory sensitizer. | |
| 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. | |
| ACGIH Carcinogens | | |
| aluminum (CAS 7429-90-5) | A4 Not classifiable as a human carcinogen. | |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | A4 Not classifiable as a human carcinogen. | |
| nickel (CAS 7440-02-0) | A5 Not suspected as a human carcinogen. | |
| Canada - Manitoba OELs: carcinogenicity | | |
| aluminum (CAS 7429-90-5) | Not classifiable as a human carcinogen. | |
| distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4) | Not classifiable as a human carcinogen. | |
| nickel (CAS 7440-02-0) | Not suspected as a human carcinogen. | |
| IARC Monographs. Overall Evaluation of Carcinogenicity | | |
| amorphous silica (CAS 7631-86-9) | 3 Not classifiable as to carcinogenicity to humans. | |
| 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 | | | |
| <i>Acute</i> | | | |
| Fish | LC50 | Fish | > 1800 mg/l, 96 hours |
| nickel (CAS 7440-02-0) | | | |
| Aquatic | | | |
| Fish | LC50 | Pumpkinseed (Lepomis gibbosus) | 8 mg/l, 96 hours |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 100 mg/l, 48 hours |
| Persistence and degradability | No data is available on the degradability of any ingredients in the mixture. | | |
| Bioaccumulative potential | No data available. | | |
| Mobility in soil | No data available. | | |
| Other 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. | | |

13. Disposal considerations

| | |
|-----------------------------------|--|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

| | |
|-------------|-----------------------------------|
| TDG | Not regulated as dangerous goods. |
| IATA | Not regulated as dangerous goods. |
| IMDG | Not regulated as dangerous goods. |

15. Regulatory information

| | |
|---|--|
| Canadian regulations | This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR. |
| Controlled Drugs and Substances Act | Not regulated. |
| Export Control List (CEPA 1999, Schedule 3) | Not listed. |
| Greenhouse Gases | Not listed. |
| Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011) | aluminum (CAS 7429-90-5) nickel (CAS 7440-02-0) |
| Precursor Control Regulations | Not regulated. |
| International regulations | |

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | Yes |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*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

Issue date 08-27-2019

Version # 01

Disclaimer The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Canada Co..

Revision information Product and Company Identification: Product and Company Identification
 Fire-fighting measures: Fire fighting equipment/instructions
 Physical & Chemical Properties: Multiple Properties
 Toxicological Information: Toxicological Data