



SAFETY DATA SHEET

SECTION 1. Identification of the hazardous chemical substance or mixture and of the supplier or manufacturer

Name of the hazardous chemical substance or mixture Nickel Anti-Seize & Lubricating Compound - 226 g

Other means of identification

Product Code Item# 1752170

Recommended use of the hazardous chemical substance or mixture, and restrictions of use

Recommended use Anti-seize and lubricating compound

Recommended restrictions None known.

Suppliers details

Company name CRC Industrias de Mexico S. de R. L. de C.V.

Address Cerrada Canadá 201-H
Fraccionamiento Industrial Martel
Santa Catarina, NL 66367
Mexico

Telephone General Information 81-2139-0572

Website www.crc-mexico.com

E-mail SoporteTecnico@crcind.com

Emergency phone number 24-Hour Emergency 01-800-681-9531

SECTION 2. Hazard identification

Classification of the substance or mixture

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Specific target organ toxicity, repeated exposure Category 1

Environmental hazards Not classified.

Elements of labeling, including precautionary statements and warning pictograms



Signal word Danger

Hazard statement

H317 May cause an allergic skin reaction.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention

P260 Do not breathe dust.
P264 Wash 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.
P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P314 Get medical advice/attention if you feel unwell.

Storage Store away from incompatible materials.

Disposal

| | |
|--|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Other hazards which do not result in classification | None known. |
| Supplemental information | None. |

SECTION 3. Composition/information on ingredients

Mixtures

| Chemical identity | Common name(s), synonym(s) | CAS number and other unique identifiers | Concentration |
|---|----------------------------|---|---------------|
| 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 |

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

SECTION 4. First-aid measures

Description of necessary first-aid measures

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| 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. |

SECTION 5. Fire-fighting measures

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| Suitable extinguishing media | Carbon dioxide (CO ₂). 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 actions 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. |

SECTION 6. Measures that must be taken in the event of accidental spillage or an accidental leak

Personal precautionary measures, protective equipment and emergency procedure

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| For non-emergency personnel | 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. |
| For emergency responders | Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS. |

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| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| Methods and materials for containing and cleaning up spills or releases | 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. For waste disposal, see section 13 of the SDS. |

SECTION 7. Handling and storage

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|---|--|
| Precautions for safe handling | Avoid breathing 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). |

SECTION 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Mexico. Occupational Exposure Limit Values

| 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 | 1.5 mg/m3 | Inhalable fraction. |

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. |

| | |
|--|--|
| 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. |
| Control banding approach | Not available. |
| 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. Eye wash facilities and emergency shower should be available when handling this product. |
| Individual protection measures, such as personal protective equipment (PPE) | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Skin protection | |
| Hand protection | Wear protective gloves such as: Nitrile. |
| Other | Wear suitable protective 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. |

SECTION 9. Physical and chemical properties

Appearance

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| Physical state | Solid. |
|-----------------------|--------|

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|---|--------------------------------------|
| 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. |
| Molecular weight | Not available. |
| Other information | |
| Percent volatile | 33.3 % estimated |

SECTION 10. Stability and reactivity

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| 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 that must be avoided | Heat, flames and sparks. Contact with incompatible materials. |
| Incompatible materials | Oxidizing material. |
| Hazardous decomposition products | Carbon oxides. Metal oxides. |

SECTION 11. Toxicological information

Information about likely routes of entry

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| Inhalation | Prolonged inhalation may be harmful. |
| 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.

Delayed and immediate effects and also chronic effects from short and long term exposure

Numerical measures of toxicity (such as acute toxicity estimates)

Acute toxicity Not known.

| Product | Species | Test Results |
|--|--|---------------|
| Nickel Anti-Seize & Lubricating Compound - 226 g | | |
| Acute | | |
| Inhalation | | |
| Vapor | | |
| ATEmix | | |
| | | 20 mg/l |
| Components | Species | Test Results |
| 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 |
| 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 | | |
| 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. | |
| 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. | |
| Other information | Not available. | |

SECTION 12. Ecotoxicological information

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|--------------------------------------|--|
| Toxicity | 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. |
| 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. |

SECTION 13. Disposal considerations

Disposal methods

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|--|--|
| 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. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| 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. |

SECTION 14. Transport information

SCT

Not regulated as dangerous goods.

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15. Regulatory information

Safety, health and environmental regulations specific for the hazard chemical substance or mixture in question This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2015).

Mexico. Hazard identification guidance list (NOM-018-STPS)

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

Mexico. Substances subject to reporting for the pollutant release and transfer registry (PRTR)

| | |
|------------------------|------|
| nickel (CAS 7440-02-0) | 1 KG |
| | 5 KG |

Mexico. Wastewater Discharges - Maximum Limits into Coastal Waters, Dams, Rivers, Soil and Wetlands (NOM-001-ECOL)

| | |
|------------------------|---------|
| nickel (CAS 7440-02-0) | Listed. |
|------------------------|---------|

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto 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) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances 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 Notified 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 Substance Inventory (TCSI) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*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).

SECTION 16. Other included information relevant to the preparation and updating of safety data sheets

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Version # 01

List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
 ANTT: National Agency of Land Transport.
 CAS: Chemical Abstract Service.
 DOT: Department of Transportation.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 IARC: International Agency for Research on Cancer.
 IATA: International Air Transport Association.
 IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
 IMDG: International Maritime Dangerous Goods.
 MARPOL: International Convention for the Prevention of Pollution from Ships.
 NFPA: National Fire Protection Association.
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
 SCT: Secretariat of Communications and Transportation (NOM-002-SCT/2011).
 STEL: Short term exposure limit.
 TWA: Time Weighted Average.

References

NMX-R-019-SCFI-2011 - Harmonized system of classification and communication of dangers of chemical products
 NOM-010-STPS-2014 (second revision) – Occupational Exposure Limits – becomes effective on April 28, 2016
 NOM-018-STPS-2015 - Harmonized system for the identification and communication of hazards and risks for hazardous chemicals in the workplace
 NOM-026-STPS-2008 - Colors and signals of safety and hygiene, and risk identification through fluids in pipes
 NOM-028-STPS-2012 – Work-Safety Management System for Processes and Critical Equipment Handling Hazardous Chemical Substances
 NOM-047-SSA1-2011 – Workplace Biological Exposure Indices (BEIs) to Chemical Substances
 Workplace Threshold Quantities of Hazardous Chemicals

Disclaimer

This information is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

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 Industrias de Mexico S. de R. L. de C.V..