

## SAFETY DATA SHEET

in accordance with 2020/878/EU (REACH, Annex II) 29 CFR 1910.1200, WHMIS 2015 and Safe Work Australia

**Revision date:** 4 November 2023      **Date of previous issue:** 23 January 2023      **SDS No.** 199-19

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

772 Premium Nickel Anti-Seize Compound (Bulk)

**Unique Formula Identifier (UFI):** GNUK-Q096-5581-N2N0

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** Petroleum base. Use on stainless steel, steel, iron, aluminum, copper, brass, titanium, etc. Do not use on oxygen systems.

**Uses advised against:** No information available

**Reason why uses advised against:** Not applicable

#### 1.3. Details of the supplier of the safety data sheet

**Company:**

A.W. CHESTERTON COMPANY  
 860 Salem Street  
 Groveland, MA 01834-1507, USA  
 Tel. +1 978-469-6446 Fax: +1 978-469-6785  
 (Mon. - Fri. 8:30 - 5:00 PM EST)  
 SDS requests: [www.chesterton.com](http://www.chesterton.com)  
 E-mail (SDS questions): [ProductSDSs@chesterton.com](mailto:ProductSDSs@chesterton.com)  
 E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

**Supplier:**

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,  
 Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055  
 EU: Chesterton International GmbH, Am Lenzenfleck 23,  
 D85737 Ismaning, Germany – Tel. +49-89-996-5460

#### 1.4. Emergency telephone number

24 hours per day, 7 days per week  
 Call Infotrac: 1-800-535-5053  
 Outside N. America: +1 352-323-3500 (collect)  
 NSW Poisons Information Centre (Australia): 13 11 26

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### 2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / Safe Work Australia / GHS

Skin sensitization, Category 1, H317  
 Specific target organ toxicity – repeated exposure, Category 1, H372 (lungs, inhalation)  
 Carcinogenicity, Category 2, H351 (inhalation)

##### 2.1.2. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

#### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2015 / Safe Work Australia / GHS**

**Hazard pictograms:**



**Signal word:**

Danger

<b>Hazard statements:</b>	H317 H351 H372	May cause an allergic skin reaction. Suspected of causing cancer by inhalation. Causes damage to the lungs through prolonged or repeated exposure by inhalation.
<b>Precautionary statements:</b>	P201 P202 P264 P270 P272 P280 P302/352 P308/313 P362/364 P405 P501	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands and any exposed skin 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 and eye protection. IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant.
<b>Supplemental information:</b>	None	
<b>2.3. Other hazards</b>		
None known		

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification	SCL, M-factor, ATE
White mineral oil (petroleum)	30-40	8042-47-5 232-455-8	NA	Asp. Tox. 1, H304	ATE (oral): > 5,000 mg/kg ATE (dermal): > 2,000 mg/kg ATE (inhalation, mist): > 5 mg/l
Nickel	20-24.9	7440-02-0 231-111-4	NA	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412	NA
Other ingredients:					
Calcium carbonate	10-20	1317-65-3 215-279-6	NA	Not classified*	ATE (oral): 6,450 mg/kg
Graphite	7-13	7782-42-5 231-955-3	NA	Not classified*	ATE (oral): > 2,000 mg/kg

\*Substance with a workplace exposure limit.  
For full text of H-statements: see SECTIONS 2.2 and 16.

<sup>1</sup> Classified according to: • 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)  
• 1272/2008/EC, GHS, REACH  
• WHMIS 2015  
• Safe Work Australia

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

**Inhalation:** Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.

**Skin contact:** Wash skin with soap and water. Contact physician if irritation persists.

**Eye contact:** Flush eyes for at least 15 minutes with large amounts of water. Contact physician if irritation persists.

**Ingestion:** Do not induce vomiting. Contact physician immediately.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. See section 8.2.2 for recommendations on personal protective equipment.

**4.2. Most important symptoms and effects, both acute and delayed**

Direct contact may cause mild eye and skin irritation. Prolonged or repeated skin contact may defat the skin and cause minimal to slight skin irritation. May cause allergic skin sensitization.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media:** Carbon dioxide, dry chemical, foam or water fog**Unsuitable extinguishing media:** High volume water jet**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products:** Carbon Monoxide, Carbon Dioxide and other toxic fumes.**Other hazards:** None**5.3. Advice for firefighters**

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

**Australian HAZCHEM Emergency Action Code:** 2 Z**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Utilize exposure controls and personal protection as specified in Section 8.

**6.2. Environmental Precautions**

Keep out of sewers, streams and waterways.

**6.3. Methods and material for containment and cleaning up**

Scoop up and transfer to a suitable container for disposal.

**6.4. Reference to other sections**

Refer to section 13 for disposal advice.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Observe good work practice - avoid eating, drinking and smoking in the work area while using any hydrocarbons. Do not breathe dust/mist. Utilize exposure controls and personal protection as specified in Section 8. Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry area.

**7.3. Specific end use(s)**

No special precautions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limit values**

Ingredients	OSHA PEL <sup>1</sup>		ACGIH TLV <sup>2</sup>		UK WEL <sup>3</sup>		AUSTRALIA ES <sup>4</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Nickel*	N/A	1	(inhal.)	1.5	N/A	0.5	N/A	1
Calcium carbonate	(total)	15	(inhal.)	10	(inhal.)	10	N/A	10
	(resp.)	5			(resp.)	4		
Graphite*	(total)	15	(resp.)	2	(inhal.)	10	(resp.)	3
	(resp.)	5			(resp.)	4		
Oil mist, mineral	N/A	5	(inhal.)	5 (inhal.)	N/A	N/A	N/A	5

\*The nickel and graphite in this product do not separate from the mixture or in of themselves become airborne, therefore, do not present a hazard in normal use.

<sup>1</sup> United States Occupational Health & Safety Administration permissible exposure limits

<sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values

<sup>3</sup> EH40 Workplace exposure limits, Health & Safety Executive

<sup>4</sup> Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

**Biological limit values**

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

**Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:****Workers**

Substance	Route of exposure	Potential health effects	DNEL
White mineral oil (petroleum)	Inhalation	Chronic effects	160 mg/m <sup>3</sup> (GESTIS)
Nickel	Inhalation	Acute effects, local	11.9 mg/m <sup>3</sup>
		Chronic effects, local	0.05 mg/m <sup>3</sup>
		Chronic effects, systemic	0.05 mg/m <sup>3</sup>
	Dermal	Chronic effects, local	0.035 mg/cm <sup>2</sup>
Calcium carbonate	Inhalation	Acute effects, local	6.36 mg/m <sup>3</sup> (GESTIS)
Graphite	Inhalation	Acute effects, local	1.2 mg/m <sup>3</sup> (GESTIS)
		Chronic effects, local	1.2 mg/m <sup>3</sup> (GESTIS)

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:**

Substance	Environmental protection target	PNEC
Nickel	Fresh water	7.1 µg/l
	Freshwater sediments	109 mg/kg
	Marine water	8.6 µg/l
	Marine sediments	109 mg/kg
	Soil (agricultural)	29.9 mg/kg

**8.2. Exposure controls****8.2.1. Engineering measures**

No special requirements. If exposure limits are exceeded, provide adequate ventilation.

**8.2.2. Individual protection measures**

**Respiratory protection:** Not normally needed. If exposure limits are exceeded, use a half or full-face respirator with combined dust/organic vapour filter.

**Protective gloves:** Chemical resistant gloves

Nickel:

Contact type	Glove material	Layer thickness	Breakthrough time*
Full	Nitrile rubber	0.11 mm	> 480 min.
Splash	Nitrile rubber	0.11 mm	> 480 min.

\*Determined according to EN374 standard.

**Eye and face protection:** Safety glasses

**Other:** None

**8.2.3. Environmental exposure controls**

Refer to sections 6 and 12.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	paste	<b>pH</b>	not applicable
<b>Colour</b>	black	<b>Kinematic viscosity</b>	1 million cps @25°C
<b>Odour</b>	mild odor	<b>Solubility in water</b>	insoluble
<b>Odour threshold</b>	not determined	<b>Partition coefficient n-octanol/water (log value)</b>	not applicable
<b>Boiling point or range</b>	not determined	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point/freezing point</b>	not determined	<b>Density and/or relative density</b>	1.47 kg/l
<b>% Volatile (by volume)</b>	0%	<b>Weight per volume</b>	12.2 lbs/gal
<b>Flammability</b>	not determined	<b>Vapour density (air=1)</b>	> 1
<b>Lower/upper flammability or explosion limits</b>	not determined	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Flash point</b>	>138°C (>280°F)	<b>% Aromatics by weight</b>	< 0.5%
<b>Method</b>	PM Closed Cup	<b>Particle characteristics</b>	not applicable
<b>Autoignition temperature</b>	not determined	<b>Explosive properties</b>	not applicable
<b>Decomposition temperature</b>	not applicable	<b>Oxidising properties</b>	not applicable

**9.2. Other information**

VOC, EPA 24: 0.12 lbs/gal

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Refer to sections 10.3 and 10.5.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under conditions of normal use.

**10.4. Conditions to avoid**

Open flames, heat, sparks and red hot surfaces.

**10.5. Incompatible materials**

Acids and strong oxidizers like liquid Chlorine and concentrated Oxygen. Nickel can react vigorously with acids to liberate hydrogen, which can form explosive mixtures with air.

**10.6. Hazardous decomposition products**

Carbon Monoxide, Carbon Dioxide and other toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 / GHS****Primary route of exposure under normal use:** Inhalation, skin and eye contact.**Acute toxicity -****Oral:**

Substance	Test	Result
White mineral oil (petroleum)	LD50, rat	> 5,000 mg/kg
Calcium carbonate	LD50, rat	6,450 mg/kg
Graphite	LD50, rat	> 2,000 mg/kg

**Dermal:**

Substance	Test	Result
White mineral oil (petroleum)	LD50, rabbit	> 2,000 mg/kg

**Inhalation:**

Substance	Test	Result
White mineral oil (petroleum)	LC50, rat, 4 hours	> 5 mg/l
Nickel	NOAEC, rat, 1 h	> 10.2 mg/l
Graphite	LC50, rat, 4 hours	> 2 mg/l

<b>Skin corrosion/irritation:</b>	Prolonged or repeated skin contact may defat the skin and cause minimal to slight skin irritation.									
	<table border="1"> <thead> <tr> <th>Substance</th> <th>Test</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>White mineral oil (petroleum)</td> <td>Skin irritation, rabbit</td> <td>Not irritating</td> </tr> <tr> <td>Graphite</td> <td>Skin irritation, rabbit</td> <td>Not irritating</td> </tr> </tbody> </table>	Substance	Test	Result	White mineral oil (petroleum)	Skin irritation, rabbit	Not irritating	Graphite	Skin irritation, rabbit	Not irritating
Substance	Test	Result								
White mineral oil (petroleum)	Skin irritation, rabbit	Not irritating								
Graphite	Skin irritation, rabbit	Not irritating								
<b>Serious eye damage/irritation:</b>	Direct contact may cause mild eye irritation.									
	<table border="1"> <thead> <tr> <th>Substance</th> <th>Test</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>White mineral oil (petroleum)</td> <td>Eye irritation, rabbit</td> <td>Not irritating</td> </tr> </tbody> </table>	Substance	Test	Result	White mineral oil (petroleum)	Eye irritation, rabbit	Not irritating			
Substance	Test	Result								
White mineral oil (petroleum)	Eye irritation, rabbit	Not irritating								
<b>Respiratory or skin sensitisation:</b>	Nickel: May cause allergic skin sensitization.									
	<table border="1"> <thead> <tr> <th>Substance</th> <th>Test</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Graphite</td> <td>Skin sensitization, mouse</td> <td>Not sensitizing</td> </tr> </tbody> </table>	Substance	Test	Result	Graphite	Skin sensitization, mouse	Not sensitizing			
Substance	Test	Result								
Graphite	Skin sensitization, mouse	Not sensitizing								
<b>Germ cell mutagenicity:</b>	White mineral oil (petroleum), Nickel, Calcium carbonate: based on available data, the classification criteria are not met.									
<b>Carcinogenicity:</b>	The National Toxicology Program (NTP) has listed Nickel powder as a potential carcinogen based on inhalation studies. The International Agency for Research on Cancer (IARC) has designated Nickel as possibly carcinogenic to humans (group 2B). The Nickel in this product is not in powder form and should not present a hazard in normal use. The U.S. National Institute for Occupational Safety and Health (NIOSH) concluded that there is no evidence that nickel metal is carcinogenic when ingested. To date, there is no evidence that nickel metal causes cancer in humans based on epidemiology data from workers in the nickel producing and nickel consuming industries. A recent animal (rat) inhalation study showed no increased respiratory cancer risk for nickel metal powder indicating that no carcinogen classification is warranted for nickel metal. WARNING: This product contains a chemical(s) known to the State of California to cause cancer.									
<b>Reproductive toxicity:</b>	White mineral oil (petroleum), Nickel, Graphite: based on available data, the classification criteria are not met.									
<b>STOT – single exposure:</b>	White mineral oil (petroleum), Nickel, Graphite: based on available data, the classification criteria are not met.									
<b>STOT – repeated exposure:</b>	Nickel: Causes damage to lungs through prolonged or repeated inhalation exposure. White mineral oil (petroleum), Graphite: based on available data, the classification criteria are not met.									
<b>Aspiration hazard:</b>	Based on available data, the classification criteria are not met.									
<b>11.2. Information on other hazards</b>	None									
<b>SECTION 12: ECOLOGICAL INFORMATION</b>										
Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.										
<b>12.1. Toxicity</b>										
No data available for the mixture. Oil products, improperly released to the environment, can cause ground and water pollution.										
<b>12.2. Persistence and degradability</b>										
Mineral oil: not readily biodegradable. Nickel, Calcium carbonate, Graphite: inorganic substances.										
<b>12.3. Bioaccumulative potential</b>										
Nickel, Calcium carbonate, Graphite: not expected to bioaccumulate.										
<b>12.4. Mobility in soil</b>										
Paste. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Mineral oil: expected to exhibit low mobility in soil.										
<b>12.5. Results of PBT and vPvB assessment</b>										
Not available										
<b>12.6. Endocrine disrupting properties</b>										
No information available										
<b>12.7. Other adverse effects</b>										
None known										

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Appropriate treatment standards for nickel must be met prior to disposal. This product is classified as a hazardous waste according to 2008/98/EC. Check local, state and national/federal regulations and comply with the most stringent requirement.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number or ID number**

**ADG/ADR/RID/ADN/IMDG/ICAO:** NOT APPLICABLE

**TDG:** NOT APPLICABLE

**US DOT:** NOT APPLICABLE

**14.2. UN proper shipping name**

**ADG/ADR/RID/ADN/IMDG/ICAO:** NON-HAZARDOUS, NON REGULATED

**TDG:** NON-HAZARDOUS, NON REGULATED

**US DOT:** NON-HAZARDOUS, NON REGULATED

**14.3. Transport hazard class(es)**

**ADG/ADR/RID/ADN/IMDG/ICAO:** NOT APPLICABLE

**TDG:** NOT APPLICABLE

**US DOT:** NOT APPLICABLE

**14.4. Packing group**

**ADG/ADR/RID/ADN/IMDG/ICAO:** NOT APPLICABLE

**TDG:** NOT APPLICABLE

**US DOT:** NOT APPLICABLE

**14.5. Environmental hazards**

NOT APPLICABLE

**14.6. Special precautions for user**

NOT APPLICABLE

**14.7. Maritime transport in bulk according to IMO instruments**

NOT APPLICABLE

**14.8. Other information**

NOT APPLICABLE

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU regulations**

**Authorisations under Title VII:** Not applicable

**Restrictions under Title VIII:** None

**Other EU regulations:** Directive 92/85/EEC on the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding;  
Directive 94/33/EC on the protection of young people at work.

**15.1.2. National regulations****US EPA SARA TITLE III****312 Hazards:****Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:**

Skin sensitization	Nickel	7440-02-0	20-24.9%
Specific target organ toxicity – repeated exposure			
Carcinogenicity			

TSCA: All chemical components are listed or exempted.

**Other national regulations:** National implementations of the EC Directives referred to in section 15.1.1.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms:** ADG: Australian Dangerous Goods Code  
 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  
 ATE: Acute Toxicity Estimate  
 BCF: Bioconcentration Factor  
 cATpE: Converted Acute Toxicity point Estimate  
 CLP: Classification Labelling Packaging Regulation (1272/2008/EC)  
 ES: Exposure Standard  
 GHS: Globally Harmonized System  
 ICAO: International Civil Aviation Organization  
 IMDG: International Maritime Dangerous Goods  
 LC50: Lethal Concentration to 50 % of a test population  
 LD50: Lethal Dose to 50% of a test population  
 LOEL: Lowest Observed Effect Level  
 N/A: Not Applicable  
 NA: Not Available  
 NOEC: No Observed Effect Concentration  
 NOEL: No Observed Effect Level  
 OECD: Organization for Economic Co-operation and Development  
 PBT: Persistent, Bioaccumulative and Toxic substance  
 (Q)SAR: Quantitative Structure-Activity Relationship  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)  
 REL: Recommended Exposure Limit  
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SCL: Specific Concentration Limit  
 SDS: Safety Data Sheet  
 STEL: Short Term Exposure Limit  
 STOT RE: Specific Target Organ Toxicity, Repeated Exposure  
 STOT SE: Specific Target Organ Toxicity, Single Exposure  
 TDG: Transportation of Dangerous Goods (Canada)  
 TWA: Time Weighted Average  
 US DOT: United States Department of Transportation  
 vPvB: very Persistent and very Bioaccumulative substance  
 WEL: Workplace Exposure Limit  
 WHMIS: Workplace Hazardous Materials Information System  
 Other abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**Key literature references and sources for data:** Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)  
 Chemical Classification and Information Database (CCID)  
 European Chemicals Agency (ECHA) - Information on Chemicals  
 Hazardous Chemical Information System (HCIS)  
 National Institute of Technology and Evaluation (NITE)  
 Swedish Chemicals Agency (KEMI)  
 U.S. National Library of Medicine Toxicology Data Network (TOXNET)

**Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:**

Classification	Classification procedure
Skin Sens. 1, H317	Calculation method
STOT RE 1, H372	Calculation method
Carc. 2, H351	Calculation method

**Relevant H-statements:** H304: May be fatal if swallowed and enters airways.  
 H317: May cause an allergic skin reaction.  
 H351: Suspected of causing cancer.  
 H372: Causes damage to organs through prolonged or repeated exposure.  
 H412: Harmful to aquatic life with long lasting effects.

**Hazard pictogram names:** Health hazard; exclamation mark

**Further information:** None

**Date of last revision:** 4 November 2023

**Changes to the SDS in this revision:** Section 1.1.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.