

**SAFETY DATA SHEET**

in accordance with 1907/2006/EC (REACH, as amended by 453/2010/EC) and 29 CFR 1910.1200

**Revision date:** 28 September 2015      **Initial date of issue:** 6 July 2007      **SDS No.** 199-18

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

**1.1. Product identifier**

772 Premium Nickel Anti-Seize Compound (Bulk)

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

Petroleum base. Use on stainless steel, steel, iron, aluminum, copper, brass, titanium, etc. Do not use on oxygen systems.

**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  
E-mail (SDS questions): ProductMSDSs@chesterton.com  
E-mail: customer.service@chesterton.com

**Supplier:**

**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)

**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 / GHS**

STOT RE 1, H372  
Carc. 2, H351  
Skin Sens. 1, H317

**2.1.2. Classification according to WHMIS 1988**

D2A: Very toxic materials causing other effects, D2B: Toxic materials causing other effects

**2.1.3. Australian statement of hazardous nature**

Hazardous according to criteria of Safe Work Australia.

**2.1.4. Additional information**

For full text of R-phrases: 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 / GHS**

**Hazard pictograms:**



**Signal word:**

Danger

**Hazard statements:**

H372	Causes damage to lungs through prolonged or repeated inhalation exposure.
H351	Suspected of causing cancer.
H317	May cause an allergic skin reaction.

**Precautionary statements:** P201 Obtain special instructions before use.  
 P260 Do not breathe dust/mist.  
 P281 Use personal protective equipment as required.  
 P280 Wear protective gloves.  
 P308/313 IF exposed or concerned: Get medical advice/attention.  
 P362/364 Take off contaminated clothing and wash it before reuse.

**Supplemental information:** None

### 2.3. Other hazards

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
White mineral oil (petroleum)	30-40	8042-47-5 232-455-8	NA	Asp. Tox. 1, H304
Nickel	20-24.9	7440-02-0 231-111-4	01-2119438 727-29	Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Other ingredients:				
Calcium carbonate	10-20	1317-65-3 215-279-6	NA	Not classified*
Graphite	7-13	7782-42-5 231-955-3	NA	Not classified*

\*Substance with a workplace exposure limit.  
 For full text of H-statements: see SECTION 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), California Proposition 65  
 \* 1272/2008/EC, REACH  
 \* WHMIS 2015  
 \* Safe Work Australia [NOHSC: 1008 (2004)]

## 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.

### 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: FIRE-FIGHTING 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

None

### 5.3. Advice for firefighters

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

**Flammability Classification:** –

**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 should 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*	–	1	(inhal)	1.5	–	0.5	–	1
Calcium carbonate	(total)	15	(inhal)	10	(inhal)	10	–	10
	(resp)	5			(resp)	4		
Graphite*	(total)	15	(resp)	2	(inhal)	10	(resp)	3
	(resp)	5			(resp)	4		
Oil mist, mineral	–	5	(inhal)	5	–	–	–	5
				(inhal)				

\*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> Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

**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>Odour</b>	mild odor
<b>Colour</b>	black	<b>Odour threshold</b>	no data available
<b>Initial boiling point</b>	not determined	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point</b>	not determined	<b>% Aromatics by weight</b>	< 0.5%
<b>% Volatile (by volume)</b>	0%	<b>pH</b>	not applicable
<b>Flash point</b>	>138°C (>280°F)	<b>Relative density</b>	1.47 kg/l
<b>Method</b>	PM Closed Cup	<b>Weight per volume</b>	12.2 lbs/gal
<b>Viscosity</b>	1 million cps @25°C	<b>Coefficient (water/oil)</b>	< 1
<b>Autoignition temperature</b>	not determined	<b>Vapour density (air=1)</b>	> 1
<b>Decomposition temperature</b>	not applicable	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Upper/lower flammability or explosive limits</b>	not determined	<b>Solubility in water</b>	insoluble
<b>Flammability (solid, gas)</b>	not applicable	<b>Oxidising properties</b>	not applicable
<b>Explosive 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 toxicological effects

**Primary route of exposure under normal use:** Inhalation, skin and eye contact.

#### Acute toxicity -

##### Oral:

Substance	Test	Result
White mineral oil (petroleum)	LD50, rat	> 5000 mg/kg
Nickel	LD50, rat	> 9000 mg/kg
Calcium carbonate	LD50, rat	6450 mg/kg
Graphite	LD50, rat	> 2000 mg/kg

##### Dermal:

Substance	Test	Result
White mineral oil (petroleum)	LD50, rabbit	> 2000 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

**Skin corrosion/irritation:** Prolonged or repeated skin contact may defat the skin and cause minimal to slight skin irritation.

Substance	Test	Result
White mineral oil (petroleum)	Skin irritation, rabbit	Not irritating
Graphite	Skin irritation, rabbit	Not irritating

**Serious eye damage/irritation:** Direct contact may cause mild eye irritation.

Substance	Test	Result
White mineral oil (petroleum)	Eye irritation, rabbit	Not irritating

**Respiratory or skin sensitisation:** Nickel: May cause allergic skin sensitization.

Substance	Test	Result
Graphite	Skin sensitization, mouse	Not sensitizing

**Germ cell mutagenicity:** White mineral oil (petroleum), Nickel, Calcium carbonate: based on available data, the classification criteria are not met.

**Carcinogenicity:** 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.

**Reproductive toxicity:** White mineral oil (petroleum), Nickel, Graphite: based on available data, the classification criteria are not met.

**STOT-single exposure:** White mineral oil (petroleum), Nickel, Graphite: based on available data, the classification criteria are not met.

**STOT-repeated exposure:** 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.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

**Other information:** None

**SECTION 12: ECOLOGICAL INFORMATION**

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.

**12.1. Toxicity**

No data available for the mixture. Oil products, improperly released to the environment, can cause ground and water pollution.

**12.2. Persistence and degradability**

Mineral oil: not readily biodegradable. Nickel, Calcium carbonate, Graphite: inorganic substances.

**12.3. Bioaccumulative potential**

Nickel, Calcium carbonate, Graphite: not expected to bioaccumulate.

**12.4. Mobility in soil**

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.

**12.5. Results of PBT and vPvB assessment**

Not available

**12.6. Other adverse effects**

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.

European List of Wastes code: 06 04 05

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

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

TDG: NOT APPLICABLE

US DOT: NOT APPLICABLE

**14.2. UN proper shipping name**

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)**

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

TDG: NOT APPLICABLE

US DOT: NOT APPLICABLE

**14.4. Packing group**

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. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

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:**

Immediate  
Delayed

**313 Chemicals:**

Nickel 7440-02-0 20-24.9%

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:** 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  
 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  
 NOAEL: No Observed Adverse Effect Level  
 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)  
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
 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)  
 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 de la santé et de la sécurité du travail (CSST)  
 Chemical Classification and Information Database (CCID)  
 European Chemicals Agency (ECHA) - Information on Chemicals  
 Hazardous Substances Information System (HSIS)  
 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
STOT RE 1, H372	Calculation method
Carc. 2, H351	Calculation method
Skin Sens. 1, H317	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

**Changes to the SDS in this revision:** Sections 2.1, 2.2, 3, 8.1, 15.1.2.

**Revision date:** 28 September 2015

**Further information:** None

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.