

### SAFETY DATA SHEET

in accordance with 1907/2006/EC (REACH, as amended by 2015/830/EU) 29 CFR 1910.1200 and WHMIS 2015

**Revision date:** 24 September 2020      **Initial date of issue:** 19 April 2007      **SDS No.** 157B-29a

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

##### 1.1. Product identifier

725 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](http://www.chesterton.com)  
E-mail (SDS questions): [ProductMSDSs@chesterton.com](mailto:ProductMSDSs@chesterton.com)  
E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)  
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

###### 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)  
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 / GHS

Skin Sens. 1, H317  
Carc. 2, H351 (inhalation)  
STOT RE 1, H372 (lungs, inhalation)  
Aquatic Chronic 3, H412

###### 2.1.2. Australian statement of hazardous nature

Hazardous according to criteria of Safe Work Australia.

###### 2.1.3. 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 / GHS

###### Hazard pictograms:



###### Signal word:

Danger

###### Hazard statements:

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer by inhalation.
H372	Causes damage to lungs through prolonged or repeated inhalation exposure.
H412	Harmful to aquatic life with long lasting effects.

<b>Precautionary statements:</b>	P201	Obtain special instructions before use.
	P264	Wash hands, face and any exposed skin 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.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/clothing and eye protection.
	P302/352	IF ON SKIN: Wash with plenty of soap and water.
	P308/313	IF exposed or concerned: Get medical advice/attention.
	P362/364	Take off contaminated clothing and wash it before reuse.
	P501	Dispose of contents/container to an approved waste disposal plant.

**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
Distillates (petroleum), hydrotreated heavy naphthenic**	35-45	64742-52-5 265-155-0	01-211946 7170-45	Asp. Tox. 1, H304
Nickel	25-30	7440-02-0 231-111-4	01-211943 8727-29	Carc. 2, H351 (inhalation) STOT RE 1, H372 (lungs, inhalation) Skin Sens. 1, H317 Aquatic Chronic 3, H412
Naphtha (petroleum), hydrotreated heavy*	1-3	64742-48-9 265-150-3	NA	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336
Methanol	0.1-0.3	67-56-1 200-659-6	01-211943 3307-44	Flam. Liq. 2, H225 Acute Tox. 3, H331, H311, H301 STOT SE 1, H370 Eye Irrit. 2A, H319
Other ingredients:				
Aluminum	5-10	7429-90-5 231-072-3	01-211952 9243-45	Not classified <sup>a</sup>
Graphite	1-5	7782-42-5 231-955-3	NA	Not classified***

For full text of H-statements: see SECTION 16.

\*Contains less than 0.1 % w/w Benzene. \*\*Contains less than 3 % DMSO extract as measured by IP 346.

\*\*\*Substance with a workplace exposure limit. <sup>a</sup> Not classified for flammability and water-reactivity based on the results of UN tests N.1 and N.5, respectively.

<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, 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. Take off contaminated clothing and wash it before reuse. 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

High vapor concentrations and direct contact may cause eye and respiratory tract irritation. Prolonged or repeated skin contact may cause mild irritation. May cause skin sensitization as evidenced by rashes or hives.

### 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**

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. Utilize exposure controls and personal protection as specified in Section 8. Remove contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

**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>
Oil mist, mineral	–	5	(inhal)	5	–	–	–	5
Nickel*	(total dust)	1	(inhal)	1.5	–	0.5	(total dust)	1
Naphtha (petroleum), hydrotreated heavy	–	–	–	–	–	–	–	–
Methanol	200	260	200 STEL: 250	(skin)	200 STEL: 250	266 333	200 (skin) STEL: 250	262 328
Aluminum*	(total) (resp)	15 5	(resp)	1	(inhal) (resp)	10 4	–	10
Graphite*	(total) (resp)	15 5	(resp)	2	(total) (resp)	10 4	(resp)	3

\*The nickel, aluminum 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]

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

Not available

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

Not available

**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 approved organic vapor respirator (e.g., EN filter type A/P2).

**Protective gloves:** Chemical resistant gloves (e.g., nitrile rubber)

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

<b>Physical state</b>	paste	<b>Odour</b>	petroleum odor
<b>Colour</b>	gray	<b>Odour threshold</b>	
<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>	approx. 0.28%
<b>% Volatile (by volume)</b>	5%	<b>pH</b>	not applicable
<b>Flash point</b>	95°C (204°F)	<b>Relative density</b>	1.29 kg/l
<b>Method</b>	PM Closed Cup	<b>Weight per volume</b>	10.7 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 determined	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Upper/lower flammability or explosive limits</b>	not determined	<b>Solubility in water</b>	negligible
<b>Flammability (solid, gas)</b>	not applicable	<b>Oxidising properties</b>	not determined
<b>Explosive properties</b>	not applicable		

**9.2. Other information**

None

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

No data available for the mixture. Nickel can react vigorously with acids to liberate hydrogen, which can form explosive mixtures with air.

**10.2. Chemical stability**

Stable

**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.

**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
Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 5000 mg/kg, estimated
Nickel	LD50, rat	> 9000 mg/kg
Aluminum	LD50, rat	> 2000 mg/kg, read-across
Graphite	LD50, rat	> 2000 mg/kg
Methanol	LD50, rat	5628 mg/kg
Methanol	Human lethal dose	143 mg/kg
Naphtha (petroleum), hydrotreated heavy	LD50, rat	> 15000 mg/kg

**Dermal:**

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	LD50, rat	> 2000 mg/kg, estimated
Naphtha (petroleum), hydrotreated heavy	LD50, rabbit	> 3160 mg/kg

**Inhalation:**

High vapor concentrations and direct contact may cause eye and respiratory tract irritation.

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	LC50, rat, 4 hours	> 5 mg/l, estimated
Nickel	NOAEC, rat, 1 h	> 10.2 mg/l (dust)
Aluminum	LC50, rat, 4 hours	> 0.888 mg/l (dust)
Graphite	LC50, rat, 4 hours	> 2 mg/l (dust)
Methanol	LC50, mouse, 134 min.	79.43 mg/l

**Skin corrosion/irritation:**

Prolonged or repeated skin contact may cause mild irritation.

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	Skin irritation, rabbit	Not irritating
Aluminum	Skin irritation, rabbit	Not irritating
Graphite	Skin irritation, rabbit	Not irritating

**Serious eye damage/irritation:**

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	Eye irritation, rabbit	Not irritating

**Respiratory or skin sensitisation:**

May cause skin sensitization as evidenced by rashes or hives.

Substance	Test	Result
Distillates (petroleum), hydrotreated heavy naphthenic	Skin sensitization, guinea pig	Not sensitizing
Aluminum	Skin sensitization, guinea pig, read-across	Not sensitizing
Graphite	Skin sensitization, (OECD 429), mouse	Not sensitizing
Methanol	Skin sensitization, guinea pig	Not sensitizing

**Germ cell mutagenicity:**

Distillates (petroleum), hydrotreated heavy naphthenic, Nickel, Aluminum, Graphite, Methanol: 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.

**Reproductive toxicity:**

Distillates (petroleum), hydrotreated heavy naphthenic, Nickel, Aluminum, Graphite, Methanol: based on available data, the classification criteria are not met.

**STOT-single exposure:**

Distillates (petroleum), hydrotreated heavy naphthenic, Nickel, Aluminum, Graphite: based on available data, the classification criteria are not met. Methanol: Causes damage to organs.

**STOT-repeated exposure:**

Nickel: Causes damage to lungs through prolonged or repeated inhalation exposure. Aluminum, Graphite, Methanol: based on available data, the classification criteria are not met.

**Aspiration hazard:**

Based on available data, the classification criteria are not met (viscosity).

**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**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment (based on component data).

**12.2. Persistence and degradability**

Naphtha (petroleum), hydrotreated heavy, Distillates (petroleum), hydrotreated heavy naphthenic: inherently biodegradable (31% 3409 OECD 301F, 28 days). Nickel, Aluminum, Graphite: inorganic substances. Methanol: readily biodegradable.

**12.3. Bioaccumulative potential**

Distillates (petroleum), hydrotreated heavy naphthenic, Nickel, Aluminum, Graphite, Methanol: not expected to bioaccumulate.

**12.4. Mobility in soil**

Paste. Solubility in water: negligible. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

**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.

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

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

<b>US DOT:</b>	NOT APPLICABLE
<b>14.2. UN proper shipping name</b>	
<b>ADR/RID/ADN/IMDG/ICAO:</b>	NON-HAZARDOUS, NON REGULATED
<b>TDG:</b>	NON-HAZARDOUS, NON REGULATED
<b>US DOT:</b>	NON-HAZARDOUS, NON REGULATED
<b>14.3. Transport hazard class(es)</b>	
<b>ADR/RID/ADN/IMDG/ICAO:</b>	NOT APPLICABLE
<b>TDG:</b>	NOT APPLICABLE
<b>US DOT:</b>	NOT APPLICABLE
<b>14.4. Packing group</b>	
<b>ADR/RID/ADN/IMDG/ICAO:</b>	NOT APPLICABLE
<b>TDG:</b>	NOT APPLICABLE
<b>US DOT:</b>	NOT APPLICABLE
<b>14.5. Environmental hazards</b>	
	NOT APPLICABLE
<b>14.6. Special precautions for user</b>	
	NOT APPLICABLE
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	
	NOT APPLICABLE
<b>14.8. Other information</b>	
	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**

<b>312 Hazards:</b>	<b>313 Chemicals:</b>		
Immediate	Nickel	7440-02-0	25-30%
Delayed	Aluminum	7429-90-5	5-10%

**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**

<b>Abbreviations and acronyms:</b>	<p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>ATE: Acute Toxicity Estimate</p> <p>BCF: Bioconcentration Factor</p> <p>cATpE: Converted Acute Toxicity point Estimate</p> <p>CLP: Classification Labelling Packaging Regulation (1272/2008/EC)</p> <p>ES: Exposure Standard</p> <p>GHS: Globally Harmonized System</p> <p>ICAO: International Civil Aviation Organization</p> <p>IMDG: International Maritime Dangerous Goods</p> <p>LC50: Lethal Concentration to 50 % of a test population</p> <p>LD50: Lethal Dose to 50% of a test population</p> <p>LOEL: Lowest Observed Effect Level</p> <p>N/A: Not Applicable</p> <p>NA: Not Available</p> <p>NOEC: No Observed Effect Concentration</p> <p>NOEL: No Observed Effect Level</p> <p>OECD: Organization for Economic Co-operation and Development</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance</p> <p>(Q)SAR: Quantitative Structure-Activity Relationship</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)</p> <p>REL: Recommended Exposure Limit</p> <p>RID: Regulations concerning the International Carriage of Dangerous Goods by Rail</p> <p>SDS: Safety Data Sheet</p> <p>STEL: Short Term Exposure Limit</p> <p>STOT RE: Specific Target Organ Toxicity, Repeated Exposure</p> <p>STOT SE: Specific Target Organ Toxicity, Single Exposure</p> <p>TDG: Transportation of Dangerous Goods (Canada)</p> <p>TWA: Time Weighted Average</p> <p>US DOT: United States Department of Transportation</p> <p>vPvB: very Persistent and very Bioaccumulative substance</p> <p>WEL: Workplace Exposure Limit</p> <p>WHMIS: Workplace Hazardous Materials Information System</p> <p>Other abbreviations and acronyms can be looked up at <a href="http://www.wikipedia.org">www.wikipedia.org</a>.</p>
<b>Key literature references and sources for data:</b>	<p>Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)</p> <p>Chemical Classification and Information Database (CCID)</p> <p>European Chemicals Agency (ECHA) - Information on Chemicals</p> <p>Hazardous Chemical Information System (HCIS)</p> <p>National Institute of Technology and Evaluation (NITE)</p> <p>Swedish Chemicals Agency (KEMI)</p> <p>U.S. National Library of Medicine Toxicology Data Network (TOXNET)</p>



**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
Carc. 2, H351	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 3, H412	Calculation method

**Relevant H-statements:** H225: Highly flammable liquid and vapour.  
H226: Flammable liquid and vapour.  
H228: Flammable solid.  
H301: Toxic if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H311: Toxic in contact with skin.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H331: Toxic if inhaled.  
H336: May cause drowsiness or dizziness.  
H351: Suspected of causing cancer by inhalation.  
H370: Causes damage to organs.  
H372: Causes damage to lungs through prolonged or repeated inhalation exposure.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.  
H372D: Causes damage to the central nervous system through prolonged or repeated exposure.

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

**Changes to the SDS in this revision:** Section 2.1.

**Date of last revision:** 24 September 2020

**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.