Issue date: 03-15-2017 Revision date: 11-02-2018 Supersedes date: 08-19-2017 Version number: 3.0



# SAFETY DATA SHEET

## 1. Identification

**Product identifier Nickel Anti-Seize Compound** 

**Product Code** 301684

Other means of identification

**Product Code** 301684

Recommended use of the chemical and restrictions on use

Recommended use Anti-Seize Compound

Not available. Restrictions on use

**Details of manufacturer or importer** 

Calumet Branded Products, LLC

GPO Darling Park Towers 2 201 Sussex St. Sydney AU NSW 2000 Australia

2780 Waterfront Pkwy E. Dr., Suite 200 Indianapolis, IN 46214

1 317 328 5660

CHEMTREC: 1800 069 100 (AUS)

# 2. Hazard(s) identification

#### Classification of the hazardous chemical

Physical hazards Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2A

> Sensitization, skin Category 1 Specific target organ toxicity, repeated Category 1

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

# Label elements, including precautionary statements

# Hazard symbol(s)







Health hazard Exclamation Environment mark

Signal word

Hazard statement(s) May cause an allergic skin reaction. Causes serious eye irritation. Causes damage to organs

through prolonged or repeated exposure. Very toxic to aquatic life. Harmful to aquatic life with

long lasting effects.

Precautionary statement(s)

Prevention Do not breathe mist or vapor. 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. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for Response

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.

Collect spillage.

**Storage** Store away from incompatible materials.

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Material name: Nickel Anti-Seize Compound SDS AUSTRALIA

#### Disposal

Other hazards which do not result in classification
Supplemental information

 $\label{local/regional/national/international regulations.} Dispose of contents/container in accordance with local/regional/national/international regulations.$ 

None known.

82.79% of the mixture consists of component(s) of unknown acute oral toxicity. 97.57% of the mixture consists of component(s) of unknown acute dermal toxicity. 57.8% of the mixture consists of component(s) of unknown acute inhalation toxicity. 63.97% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 63.97% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 55.77% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. 55.77% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

#### **Mixture**

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
NICKEL AND COMPOUNDS	7440-02-0	20 - < 30
Distillates (petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	10 - < 20
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic	64742-65-0	10 - < 20
Graphite	7782-42-5	10 - < 20
Residual Oils (petroleum), Solvent-refined	64742-01-4	10 - < 20
Distillates (petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	5 - < 10
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )-	54326-11-3	3 - < 5
Limestone	1317-65-3	3 - < 5
White Mineral Oil (petroleum)	8042-47-5	1 - < 3
Other components below reportable levels		1 - < 3

#### 4. First-aid measures

## Description of necessary 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** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid responders

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash

contaminated clothing before reuse.

Symptoms caused by

exposure

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause

chronic effects.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

media

Dry sand.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire. Carbon dioxide (CO2).

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for fire fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear

suitable protective equipment.

Hazchem code

None

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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.

**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.

Methods and materials for containment and cleaning up Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls and personal protection

**Control parameters** 

Follow standard monitoring procedures.

#### Occupational exposure limits

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A) Components Value **Type** Distillates (petroleum), **TWA** 5 mg/m3 Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Distillates (petroleum), TWA 5 mg/m3 **Hydrotreated Heavy** Paraffinic (CAS 64742-54-7) Distillates (petroleum), **TWA** 5 mg/m3 Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0) NICKEL AND COMPOUNDS TWA 0.1 mg/m3 (CAS 7440-02-0) White Mineral Oil TWA 5 mg/m3 (petroleum) (CAS 8042-47-5)

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Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Mist.
Limestone (CAS 1317-65-3)	TWA	10 mg/m3	Inspirable dust.
NICKEL AND COMPOUNDS (CAS 7440-02-0)	TWA	1 mg/m3	
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3	Mist.
White Mineral Oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Mist.
ACGIH Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable Fraction.
US. ACGIH Threshold Limit Values		V 1	F
Components	Туре	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (CAS 54326-11-3)	TWA	1 mg/m3	Respirable fraction.
NICKEL AND COMPOUNDS (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
White Mineral Oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
UK. EH40 Workplace Exposure Lir Components	nits (WELs) Type	Value	Form
Limestone (CAS 1317-65-3)	TWA	4 mg/m3	Respirable.
Elinestone (0/18 1917 00 0)		4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable
		10 mg/m3	Inhalable dust.
NICKEL AND COMPOUNDS (CAS 7440-02-0)	TWA	0.5 mg/m3	
Germany. DFG MAK List (advisory Compounds in the Work Area (DF		e Investigation of Health Ha	
Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Respirable fraction.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Respirable fraction.
Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Respirable fraction.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	TWA	5 mg/m3	Respirable fraction.
White Mineral Oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Respirable fraction.

**Biological limit values** 

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

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. Provide eyewash station.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures 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** Liquid. **Form** Liquid. Color Not available. Odor Not available. **Odor threshold** Not available. pН Not available.

Melting point/freezing point Initial boiling point and

boiling range

2651 °F (1455 °C) estimated

680 °F (360 °C) estimated

275.0 °F (135.0 °C) estimated Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

Not available.

(%)

**Explosive limit - upper** 

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity287 cStViscosity temperature104 °F (40 °C)

Other physical and chemical parameters

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Percent volatile 0.03 % estimated

Specific gravity 1.25

## 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.

Strong acids.

Incompatible materials

Hazardous decomposition

products

Toxic gas. Nitrogen oxides (NOx).

# 11. Toxicological information

### Information on possible routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to Severe eye irritation. Symptoms may it

exposure

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Acute toxicity Not known.

Components Species Test Results

Graphite (CAS 7782-42-5)

<u>Acute</u> Oral

LD50 Rat > 10000 mg/kg

**Skin corrosion/irritation**Due to partial or complete lack of data the classification is not possible.

**Serious eye** Causes serious eye irritation.

damage/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 Risk of cancer cannot be excluded with prolonged exposure.

**ACGIH Carcinogens** 

Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- A4 Not classifiable as a human carcinogen.

(CAS 54326-11-3)

Distillates (petroleum), Hydrotreated Heavy Naphthenic A4 Not classifiable as a human carcinogen.

(CAS 64742-52-5)

Distillates (petroleum), Hydrotreated Heavy Paraffinic A4 Not classifiable as a human carcinogen.

(CAS 64742-54-7)

Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic A4 Not classifiable as a human carcinogen.

(CAS 64742-65-0)

NICKEL AND COMPOUNDS (CAS 7440-02-0) A5 Not suspected as a human carcinogen.

Residual Oils (petroleum), Solvent-refined (CAS A2 Suspected human carcinogen.

64742-01-4)

A4 Not classifiable as a human carcinogen. White Mineral Oil (petroleum) (CAS 8042-47-5) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

NICKEL AND COMPOUNDS (CAS 7440-02-0) 2B Possibly carcinogenic to humans.

White Mineral Oil (petroleum) (CAS 8042-47-5) 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** Based on available data, the classification criteria are not met.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. **Product Species Test Results** Nickel Anti-Seize Compound

**Aquatic** Crustacea EC50 Daphnia 4.9995 mg/l, 48 hours estimated

Fish Components **Test Results Species** 

NICKEL AND COMPOUNDS (CAS 7440-02-0)

**Aquatic** 

Fish

FC50 Crustacea Water flea (Daphnia magna) 1 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 2.923 mg/l, 96 hours

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential No data available.

Mobility in soil No data available for this product.

LC50

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 methods** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and

its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Residual waste 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).

Material name: Nickel Anti-Seize Compound 301684 Version #: 3.0 Revision date: 11-02-2018 Print date: 11-02-2018 430.6137 mg/l, 96 hours estimated

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

**ADG** 

**UN number** 3082

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL AND COMPOUNDS)

Transport hazard class(es)

Class Subsidiary risk Ш Packing group **Environmental hazards** Yes Hazchem code •37

Special precautions for

user

RID

Read safety instructions, SDS and emergency procedures before handling.

**UN number** 3082

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL AND COMPOUNDS)

Transport hazard class(es)

Class 9 Subsidiary risk 9 Label(s) Packing group Ш **Environmental hazards** Yes

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

IATA

**UN number** 3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (NICKEL AND COMPOUNDS)

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards** Yes **ERG Code** 9L

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Other information

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN number** 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NICKEL AND COMPOUNDS), **UN proper shipping name** 

MARINE POLLUTANT

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш **Environmental hazards** 

Marine pollutant Yes **EmS** 

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78

and the IBC Code

ADG; IATA; IMDG; RID



#### Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

## 15. Regulatory information

#### Safety, health and environmental regulations

**National regulations** 

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

#### Australia Medicines & Poisons Appendix E

White Mineral Oil (petroleum) (CAS 8042-47-5)

## **Australia Medicines & Poisons Schedule 5**

White Mineral Oil (petroleum) (CAS 8042-47-5)

# Australia National Pollutant Inventory (NPI): Threshold quantity

NICKEL AND COMPOUNDS (CAS 7440-02-0) 10 TONNES/YR Threshold Category: 1

## **High Volume Industrial Chemicals (HVIC)**

Distillates (petroleum), Hydrotreated Heavy Paraffinic

(CAS 64742-54-7)

Distillates (petroleum), Solvent-dewaxed Heavy Paraffinic 10000 - 99999 TONNES See the regulation for additional

CAC (4742 (F O)

(CAS 64742-65-0)

information.

Graphite (CAS 7782-42-5) 1000 - 99

1000 - 9999 TONNES See the regulation for additional information. 1000 - 9999 TONNES See the regulation for additional information.

1000 - 9999 TONNES See the regulation for additional information.

NICKEL AND COMPOUNDS (CAS 7440-02-0) White Mineral Oil (petroleum) (CAS 8042-47-5)

1000 - 9999 TONNES See the regulation for additional information.

# National Pollutant Inventory (NPI) substance reporting list

Graphite (CAS 7782-42-5) 2000 TONNES/YR Threshold Category: 2B

400 TONNES/YR Threshold Category: 2A

NICKEL AND COMPOUNDS (CAS 7440-02-0)

2000 TONNES/YR Threshold Category: 2B

## International regulations

#### 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)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

Country(s) or regionInventory nameOn inventory (yes/no)\*KoreaExisting Chemicals List (ECL)No

New Zealand Inventory No

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

## 16. Other information

 Issue date
 03-15-2017

 Revision date
 11-02-2018

**Disclaimer**Calumet Branded Products, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in

the sheet was written based on the best knowledge and experience currently available.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

Material name: Nickel Anti-Seize Compound
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No

<sup>\*</sup>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).