

**Prod.Name:** NICKEL ANTI-SEIZE LUBRICANT  
**Manufacturer:** Permatex, Inc.  
**HMCS ID:** 109477  
**SUC:** 04 - Metal Working Fluids and Lubricants

# MATERIAL SAFETY DATA SHEET

**Revision:** 15.Jan.2007  
**Effective:** 15.Jan.2007  
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## 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT INFORMATION

**Product Name:** NICKEL ANTI-SEIZE LUBRICANT

**Recommended Use:**

Lubricant

**External Keys:**

12371386 Distributable Material (Part #)  
NICKEL ANTI SEIZE LUBRICANT Primary Tradename - Distributable Material  
NICKEL ANTI-SEIZE LUBRICANT Primary Tradename - Distributable Material

### MANUFACTURER INFORMATION

**Manufacturer:** Permatex, Inc.

**Address:**

10 Columbus Blvd. USA Connecticut 06106 Hartford MAILING

**Communication Lines:**

Phone 877-376-2839 EMERGENCY  
Phone 877-376-2839 INFO  
Phone 800-255-3924 EMERGENCY  
Phone 813-348-0585 International Emergency  
Internet www.permatex.com Website (with MSDS)

**Comment:**

Prepared By: Denise Boyd, Health and Safety Manager

## 2 INGREDIENT INFORMATION

### FORMULATION

**Ingredients:**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
MINERAL OILS	989922-24-2	>	60	% Wt	No
NICKEL	7440-02-0	Range	10 - 20	% Wt	Yes
GRAPHITE	7782-42-5	Range	5 - 15	% Wt	Yes
OXYGENATED HYDROCARBONS	989928-87-0	Range	5 - 15	% Wt	No
ALUMINUM	7429-90-5	<	2	% Wt	Yes

## 3 HAZARDS IDENTIFICATION

**Specific Hazards:**

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation.

**Specific Hazards (Routes Of Exposure):**

<u>Exposure Routes</u>	<u>Exposure Duration</u>	<u>Observation</u>
Skin Contact	General	May cause skin irritation.
Eye Contact	General	May cause eye irritation.

**Effects Of Overexposure:**

Signs and Symptoms of Exposure: May cause skin or eye irritation, dermatitis, oil acne, or defatting of skin on prolonged or repeated contact. Excessive accidental exposure may cause headache, dizziness, nausea and mild respiratory initiation.

**Medical Conditions Aggravated By Exposure:**

Persons with respiratory problems such as emphysema and asthma should avoid inhalation.

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### 4 FIRST AID MEASURES

**First Aid By::**

Inhalation Move to fresh air in case of accidental inhalation of vapors. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Ingestion If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention..

### 5 FIRE FIGHTING MEASURES

**Flash Point:**

> 200 F TCC

**Explosive Limits:**

Lower Explosive Limit (LEL) 30% Aluminum metal.

Upper Explosive Limit (UEL) Not Determined

**Extinguishing Media:**

Carbon Dioxide, Dry Chemicals, Foam.

**Non Suitable Extinguishing Media:**

DO NOT use water.

**Fire and Explosion Hazards:**

Closed containers may rupture or explode when exposed to extreme heat.  
Hazardous Products of Combustion: Oxides of carbon, Oxides of zinc, Oxides of sodium, Oxides of sulfur.

**Special Fire Fighting Procedures:**

Firefighters should wear self-contained breathing apparatus.

### 6 ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES**

**Recovery:**

Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal

### 7 HANDLING AND STORAGE

**HANDLING**

**Safe Handling Procedures:**

Avoid prolonged skin contact. Keep away from eyes. Do not inhale vapors.

**STORAGE**

**Storage Conditions:**

Store away from heat, sparks or open flame. Do not store at temperatures above 120 degrees F.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:**

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

**EXPOSURE LIMITS**

**Limit Values:**

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**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS**

**Limit Values:**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Type</u>	<u>Value</u>	<u>Specification</u>	<u>Source</u>
NICKEL	7440-02-0	PEL-TWA	1mg/m3	-	OSHA - Permissible Exposure Limits (PELs)
NICKEL	7440-02-0	GM OEG -TWA	1mg/m3	-	GM Occupational Exposure Guidelines (OEG)
NICKEL	7440-02-0	TLV-TWA	1.5mg/m3	-	Threshold Limit Values (TLVs) - ACGIH
NICKEL	7440-02-0	State-TWA	1mg/m3	-	MICHIGAN
NICKEL	7440-02-0	State-TWA	1mg/m3	-	NEW YORK
NICKEL	7440-02-0	State-TWA	1mg/m3	-	TENNESSEE
GRAPHITE	7782-42-5	PEL-TWA	5mg/m3	-	OSHA - Permissible Exposure Limits (PELs)
GRAPHITE	7782-42-5	GM OEG -TWA	2mg/m3	-	GM Occupational Exposure Guidelines (OEG)
GRAPHITE	7782-42-5	TLV-TWA	2mg/m3	-	Threshold Limit Values (TLVs) - ACGIH
GRAPHITE	7782-42-5	State-TWA	2.5mg/m3	-	MICHIGAN
GRAPHITE	7782-42-5	State-TWA	2.5mg/m3	-	NEW YORK
GRAPHITE	7782-42-5	State-TWA	2.5mg/m3	-	TENNESSEE
ALUMINUM	7429-90-5	GM OEG -TWA	10mg/m3	-	GM Occupational Exposure Guidelines (OEG)
ALUMINUM	7429-90-5	TLV-TWA	10mg/m3	-	Threshold Limit Values (TLVs) - ACGIH
ALUMINUM	7429-90-5	State-TWA	15mg/m3	-	MICHIGAN
ALUMINUM	7429-90-5	State-TWA	15mg/m3	-	NEW YORK
ALUMINUM	7429-90-5	State-TWA	15mg/m3	-	TENNESSEE

**Additional Limit Values:**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Comment</u>
GRAPHITE	7782-42-5	=	2	mg/m3	ACGIH

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### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE LIMITS

##### Additional Limit Values:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Comment</u>
ALUMINUM	7429-90-5	=	10	mg/m3	TLV. Respir. dust. ACGIH: TWA (metal dust).
ALUMINUM	7429-90-5	=	15	mg/m3	TWA (total dust). 5 mg/m3 TWA (respirable).

#### PERSONAL PROTECTIVE EQUIPMENT

##### Personal Protective Equipment (PPE):

Eye Protection	Safety glasses.
Respiratory Protection	An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.
Hand Protection	Rubber or plastic gloves.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE

**Physical State:** Paste

**Color:** Gray

**Odor:** Petroleum distillates.

#### PHYSICAL PROPERTIES

##### pH Value:

Does not apply.

##### Changes of State:

Boiling Point Not Determined

##### Vapor Pressure:

< 5 mmhg

##### Vapor Density:

> 1 (Air=1)

##### Evaporation Rate:

< 1 (BUTYL ACETATE=1).

##### Specific Gravity:

= 1.1

##### Solubility:

Water < 1 %'

##### VOC:

Theoretical VOC (by wt.) = 0 % Wt

### 10 STABILITY AND REACTIVITY

#### STABILITY INFORMATION

**Stability Under Normal Conditions:** Stable

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### 10 STABILITY AND REACTIVITY

#### STABILITY INFORMATION

**Conditions to Avoid:**

Heat

**Incompatible Materials:**

Strong oxidizers.

**Hazardous Polymerization:**

WILL NOT OCCUR

#### HAZARDOUS DECOMPOSITION

**Reactions:**

Type of Reaction

Reaction Products

Thermal Decomposition

Hazardous Products of Combustion: Oxides of carbon, Oxides of zinc, Oxides of sodium, Oxides of sulfur.

### 11 TOXICOLOGICAL INFORMATION

#### CLASSIFICATION OF INGREDIENTS

**Carcinogenicity:**

NICKEL (7440-02-0): NTP: Reasonably anticipated to be a human carcinogen.

NICKEL (7440-02-0): ACGIH Carcinogens: A5 - Not Suspected as a Human Carcinogen.

NICKEL (7440-02-0): IARC: Group 2B Monograph 49, 1990.

CALIFORNIA PROP 65:

WARNING: This product contains a chemical known to the State of California to cause cancer.

### 12 ECOLOGICAL INFORMATION

#### ENVIRONMENTAL IMPACT

**Comment:**

No data available

### 13 DISPOSAL CONSIDERATIONS

**Waste Disposal Information:**

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations. US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

### 14 TRANSPORT INFORMATION

**DOT Information:**

DOT (49 CFR 172) - Marine Pollutant: None.

**DOT Shipping Name:**

Unrestricted

**DOT Hazard Class:**

None

**DOT UN Code:**

None

**Comment:**

IATA:

Proper Shipping Name: Not regulated

Class or Division: None.

UN/NA Number: None.

IMDG:

Proper Shipping: Unrestricted.

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### 14 TRANSPORT INFORMATION

**Comment:**

Hazard Class: None.

UN Number: None.

### 15 REGULATORY INFORMATION

#### LABELLING

**Hazard Codes:**

NFPA Health	2
NFPA Flammability	1
NFPA Reactivity	0
HMIS Health	2
HMIS Flammability	1
HMIS Reactivity	0

#### NATIONAL REGULATIONS

**SARA 311/312:** No

**SARA 313:** Yes

**Immediate Health:** No

**Delayed Health:** No

**Fire:** No

**Sudden Pressure Release:** No

**Reactive:** No

**RCRA:**

Hazardous Waste

NH - Not a RCRA Hazardous Waste Material

**Other Regulation:**

SARA 313 Chemicals:

The following component(s) is listed as a SARA Section 313 Toxic Chemical: NICKEL (7440-02-0).

TSCA Inventory Status:

Listed on Inventory: YES. All components of this product are listed (or exempt) on the EPA TSCA inventory.

#### STATE/LOCAL REGULATIONS

**Comment:**

CALIFORNIA PROP 65:

WARNING: This product contains a chemical known to the State of California to cause cancer.

### 16 OTHER INFORMATION

**Comments:**

ADDITIONAL EXPOSURE LIMITS: GM Occupational Exposure Guidelines (OEG) and State - TWA's were provided by General Motors.