

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision Date 26-Feb-2025 Version 1

1. Identification

Product identifier

Product Name NICKEL ANTI-SEIZE LUBRICANT 14 GR

Other means of identification

Product Code 77134

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer Address May Also Be Distributed by:

ITW Permatex, Inc. ITW Permatex Canada 6875 Parkland Blvd. ITW Permatex Canada 101-2360 Bristol Circle

Solon, Ohio 44139 USA Oakville, ON Canada L6H 6M5 Telephone: 1-87-Permatex Telephone: (800) 924-6994

(866) 732-9502

E-mail address mail@permatex.com

Emergency telephone number

Company Phone Number 866-732-9502

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924

International Emergency: 00+1+ 813-248-0585

Contract Number: MIS0003453

24-hour emergency phone number No information available

2. Hazard(s) identification

Classification

Skin sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Contains DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (<3% DMSO); NICKEL



Danger

Hazard statements

May cause an allergic skin reaction.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements - Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

Contaminated work clothing should not be allowed out of the workplace.

Do not breathe dust.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see supplemental first aid instructions on this label).

Skin

IF ON SKIN: Wash with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice and attention.

Take off contaminated clothing and wash it before reuse.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

30.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

97 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Other Information

May be harmful in contact with skin. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (<3% DMSO)	64741-96-4	45-70%	-	-

GRAPHITE	7782-42-5	10-30%	-	-
NICKEL	7440-02-0	5-10%	-	-
ALUMINIUM POWDER	7429-90-5	1-5%	_	_

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

Ingestion Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives.

Effects of Exposure May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

surrounding environment.

Small Fire In case of fire, use water spray, foam, dry chemical, or CO2. Large Fire In case of fire, use water spray, foam, dry chemical, or CO2.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products No information available.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off

Revision Date 26-Feb-2025

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control Parameters Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
GRAPHITE	TWA: 2 mg/m ³ respirable	TWA: 15 mg/m ³ total dust	TWA: 2.5 mg/m ³ ; natural
7782-42-5	particulate matter all forms	synthetic	respirable dust
	except graphite fibers	TWA: 5 mg/m ³ respirable	IDLH: 1250 mg/m ³
		fraction synthetic	-
		TWA: 15 mppcf respirable	
		dust natural	
		(vacated) TWA: 2.5 mg/m ³	
		respirable dust natural	
		(vacated) TWA: 10 mg/m ³	
		total dust synthetic	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction synthetic	
		TWA: 15 mppcf natural	
NICKEL	TWA: 1.5 mg/m ³ inhalable	TWA: 1 mg/m ³	TWA: 0.015 mg/m ³ ;
7440-02-0	particulate matter	(vacated) TWA: 1 mg/m ³	IDLH: 10 mg/m ³
ALUMINIUM POWDER	TWA: 1 mg/m³ respirable	TWA: 15 mg/m³ total dust	TWA: 10 mg/m ³ ; total dust
7429-90-5	particulate matter	TWA: 5 mg/m ³ respirable	TWA: 5 mg/m ³ ; respirable
		fraction	dust
		(vacated) TWA: 15 mg/m ³	TWA: 5 mg/m ³ ; Al
		total dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
		(vacated) TWA: 5 mg/m ³ Al	
		Aluminum	

Chemical name	Alberta	British Columbia	Ontario	Quebec
GRAPHITE	TWA: 2 mg/m ³ ;	TWA: 2 mg/m ³ ;	TWA: 2 mg/m ³ ;	TWAEV: 2 mg/m ³ ;
7782-42-5	respirable	respirable	respirable particulate	respirable dust

			matter	
NICKEL	TWA: 1.5 mg/m ³ ;	TWA: 0.05 mg/m ³ ;	TWA: 1 mg/m³;	TWAEV: 1.5 mg/m ³ ;
7440-02-0	_	-	inhalable fraction	inhalable dust
ALUMINIUM POWDER	TWA: 10 mg/m ³ ; dust	TWA: 1.0 mg/m ³ ;	TWA: 1 mg/m ³ ;	TWAEV: 5 mg/m ³ ;
7429-90-5	TWA: 5 mg/m³;	respirable	respirable particulate	
	1		matter	

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
GRAPHITE	TWA: 2 mg/m³; respirable particulate matter	TWA: 2 mg/m³; respirable fraction	TWA: 2 mg/m³; respirable particulate matter	TWA: 2 mg/m³; respirable particulate matter
NICKEL	TWA: 1.5 mg/m³; inhalable particulate matter	TWA: 1.5 mg/m³; inhalable fraction	TWA: 1.5 mg/m³; inhalable particulate matter	TWA: 1.5 mg/m³; inhalable particulate matter
ALUMINIUM POWDER	TWA: 1 mg/m³; respirable particulate matter	TWA: 1 mg/m³; respirable fraction	TWA: 1 mg/m³; respirable particulate matter	TWA: 1 mg/m³; respirable particulate matter

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
GRAPHITE	TWA: 2 mg/m ³ ;	TWA: 2 mg/m ³ ;	TWA: 2 mg/m ³ ;	TWA: 20 mppcf;
	respirable fraction	respirable particulate	respirable fraction	TWA: 30 mppcf;
	STEL: 4 mg/m ³ ;	matter	STEL: 4 mg/m ³ ;	TWA: 10 mg/m ³ ;
	respirable fraction		respirable fraction	
NICKEL	TWA: 1.5 mg/m ³ ;	TWA: 1.5 mg/m ³ ;	TWA: 1.5 mg/m ³ ;	TWA: 1 mg/m ³ ;
	inhalable fraction	inhalable particulate	inhalable fraction	STEL: 3 mg/m³;
	STEL: 3 mg/m ³ ;	matter	STEL: 3 mg/m ³ ;	
	inhalable fraction		inhalable fraction	
	Designated substance		Designated Chemical	
			Substance	
ALUMINIUM POWDER	TWA: 10 mg/m ³ ; dust	TWA: 1 mg/m ³ ;	TWA: 10 mg/m ³ ; dust	
	STEL: 20 mg/m ³ ; dust	respirable particulate	STEL: 20 mg/m ³ ; dust	
		matter		

Biological occupational exposure limits

Chemical name	ACGIH
NICKEL	5 μg/L - urine (Nickel) - post-shift at end of workweek
7440-02-0	

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection Use appropriate respiratory protection.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

Butyl acetate = 1

immediately after handling the product.

Thermal hazards No information available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Paste / Gel Liquid Appearance Silver Paste Color Silver

Odor No information available
Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available
Melting point / freezing point
Boiling point / boiling range
Flash point

No data available
No data available
No data available
> 204 °C / 399.2 °F

Evaporation rate < 1

Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No data available
No data available
No data available

Relative density 1.12 Water solubility Negligible Solubility(ies) No data available No data available Partition coefficient No data available **Autoignition temperature Decomposition temperature** No data available Kinematic viscosity No data available **Dynamic viscosity** No data available

Particle characteristics

Particle Size No data available
Particle Size Distribution No data available

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information availableMolecular weightNo information available

VOC content 0

DensityNo information availableBulk densityNo information available

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoidNone known based on information supplied.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products Carbon oxides. Metal oxides.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives.

Acute toxicity .

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

 ATEmix (oral)
 5,323.40 mg/kg

 ATEmix (dermal)
 5,000.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

30.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

40 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

97 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50				
DISTILLATES (PETROLEUM),	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-				
SOLVENT-REFINED HEAVY							
NAPHTHENIC (<3% DMSO)							
64741-96-4							
GRAPHITE	-	-	> 2000 mg/m ³ (Rat) 4 h				
7782-42-5							
NICKEL	> 9000 mg/kg (Rat)	-	> 10.2 mg/L (Rat) 1 h				
7440-02-0							
ALUMINIUM POWDER	-	-	> 0.888 mg/L (Rat) 4 h				
7429-90-5							

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
NICKEL	A5 - Not Suspected as a	Group 2B - Possibly	Reasonably Anticipated	Present
7440-02-0	Human Carcinogen	carcinogenic to humans	To Be A Human	
	_	-	Carcinogen	
ALUMINIUM POWDER	A4 - Not Classifiable as	-	-	-
7429-90-5	a Human Carcinogen			

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly carcinogenic to humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureCauses damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (<3% DMSO) 64741-96-4	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
GRAPHITE 7782-42-5	-	LC50: >100mg/L (96h, Danio rerio)	-	-
NICKEL 7440-02-0	EC50: =0.18mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.174 - 0.311mg/L (96h, Pseudokirchneriella subcapitata)	LC50: >100mg/L (96h, Brachydanio rerio) LC50: =1.3mg/L (96h, Cyprinus carpio) LC50: =10.4mg/L (96h, Cyprinus carpio)	-	EC50: >100mg/L (48h, Daphnia magna) EC50: =1mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

Revision Date 26-Feb-2025

environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste NumberWaste designations and classifications should be determined by the end user based on the

application for which the product was used.

14. Transport information

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

ENCS Does not comply

IECSCCompliesKECICompliesPICCSCompliesAICSCompliesNZIOCComplies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %	
NICKEL - 7440-02-0	0.1	
ALUMINIUM POWDER - 7429-90-5	1.0	

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority	CWA - Hazardous
	Quantities		Pollutants	Substances
NICKEL	-	X	Х	-
7440-02-0				

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name Hazardous Substances RQs Extremely Hazardous Substances RQs Substances RQs

NICKEL 100 lb / - RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

_	This product contains the following I reposition so chomisals:			
Chemical name		California Proposition 65		
Ī	NICKEL - 7440-02-0	Carcinogen		

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
GRAPHITE	X	X	X
7782-42-5			
NICKEL	X	X	X
7440-02-0			
ALUMINIUM POWDER	X	X	X
7429-90-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPAHealth hazards2Flammability1Instability0Special hazards-HMISHealth hazards3 *Flammability1Physical hazards0Personal protectionX

Chronic Hazard Star Legend *= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

+ Sensitizers

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set United Nations World Health Organization (WHO)

office Nations World Fleatin Organization (WFTO)

Revision Date 26-Feb-2025

Revision NoteNo information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.