

SAFETY DATA SHEET

1. Identification

Product identifier	LPS® Nickel Anti-Seize
Other means of identification	
Part Number	03908, 03910
Recommended use	A low-friction anti-seize spray lubricant designed to prevent seizure and galling and resist settling and hardening of welding.
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	er/Distributor information
Manufacturer	
Manufacturer	
Company name	LPS Laboratories, a division of Illinois Tool Works, Inc.
Address	4647 Hugh Howell Rd.
	Tucker, GA 30084
Country	(U.S.A.)
	Tel: +1 770-243-8800
In Case of Emergency	1-800-424-9300 (inside U.S.)
	+001 703-527-3887 (outside U.S.)
Website	www.lpslabs.com
E-mail	sds@lpslabs.com
2 Hozard(a) idantificatio	

2. Hazard(s) identification

Label elements

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	



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Signal word	Danger
Hazard statement	May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. 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. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Mixtures				
Chemical name	Common name and synonyms	CAS number	%	
Nickel		7440-02-0	15 - 25	
4. First-aid measures				
Inhalation	Move to fresh air. Call a physician if symptoms d	evelop or persist.		
Skin contact	Remove contaminated clothing immediately and eczema or other skin disorders: Seek medical at			
Eye contact	Rinse with water. Get medical attention if irritatio	n develops and persists.		
Ingestion	Rinse mouth. Get medical attention if symptoms	occur.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction. Dermatitis. Rash.			
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat s Symptoms may be delayed.	symptomatically. Keep vic	tim under observat	
General information	IF exposed or concerned: Get medical advice/att (show the label where possible). Ensure that me involved, and take precautions to protect themse	dical personnel are aware	e of the material(s)	
5. Fire-fighting measures				
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.			
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this v	vill spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for	ormed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote	ective clothing must be we	orn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so v	vithout risk.		
Specific methods	Use standard firefighting procedures and conside	er the hazards of other in	volved materials.	
General fire hazards	No unusual fire or explosion hazards noted.			
6. Accidental release meas	sures			
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people low areas. Wear appropriate protective equipme damaged containers or spilled material unless w adequate ventilation. Local authorities should be contained. Use personal protection recommended	nt and clothing during cle earing appropriate protec advised if significant spil	an-up. Do not touc tive clothing. Ensu lages cannot be	

with water. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Environmental precautions

7. Handling and storage

7. Handling and storage
Precautions for safe handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Observe good industrial hygiene

Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Prevent

entry into waterways, sewer, basements or confined areas. Following product recovery, flush area

Conditions for safe storage, including any incompatibilities

practices.

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

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value		
Nickel (CAS 7440-02-0)	AS 7440-02-0) PEL 1			
US. ACGIH Threshold Lim Components	it Values Type	Value	Form	
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.	
US. NIOSH: Pocket Guide Components	to Chemical Hazards Type	Value		
Nickel (CAS 7440-02-0)	TWA	0.015 mg/m3		
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.			
ndividual protection measure Eye/face protection	s, such as personal protective equip If contact is likely, safety glasses wi		led.	
Skin protection Hand protection	Wear appropriate chemical resistar	t gloves.		
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.			
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.			
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the materia 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 workplace.			

9. Physical and chemical properties

AppearancePhysical stateSolid.FormPaste.ColorSilver, GreyOdorSlight petroleum odorOdor thresholdNot available.pHNot available.Melting point/freezing point> 449.6 °F (> 232 °C)Initial boiling point and boiling range> 500 °F (> 260 °C)Flash point> 429.8 °F (> 221.0 °C) Open CupEvaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explosive limitsNot available.flammability limit - lower (%)Not available.flammability limit - upper (%)Not available.flammability limit - upper (%)Not available.flammability limit - lower (%)Not available.flammability limit - upper (%)Not available.flammability limit - lower (%)Not available.flammability limit - lower (%)Not available.flammability limit - lower (%)Not available.flammability limit - upper (%)Not available.flammability limit - lower (%)Not available.flammability limit - lower (%)Not available.flammability limit - upper (%)Not available. <th></th> <th></th>		
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Vapor pressureNot available.Vapor densityNot available.	Explosive limit - lower (%)	Not available.
Vapor density Not available.	Explosive limit - upper (%)	Not available.
	Vapor pressure	Not available.
Relative density 1.12	Vapor density	Not available.
	Relative density	1.12

Material name: LPS® Nickel Anti-Seize

819 Version #: 01 Issue date: 12-10-2014

Solubility(ies)	
Solubility (water)	Not soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
VOC (Weight %)	None

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	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	May cause an allergic s	kin reaction.		
Components	Species	Test Results		
Nickel (CAS 7440-02-0)				
Acute				
Oral				
LD50	Rat	> 9000 mg/kg		
Skin corrosion/irritation	Prolonged skin contact	may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization	n			
Respiratory sensitization	Not a respiratory sensiti	zer.		
Skin sensitization	May cause an allergic skin reaction. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Suspected of causing c	ancer.		
ACGIH Carcinogens				
Nickel (CAS 7440-02-0)		A5 Not suspected as a human carcinogen.		
IARC Monographs. Overall	Evaluation of Carcinoge	nicity		
Nickel (CAS 7440-02-0)	, , , , , , , , , , , , , , , , , , , ,			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)				
Not listed.				

US. National Toxicology Pro	gram (NTP) Report on Carcinogens		
Nickel (CAS 7440-02-0)	Reasonably Anticipated to be a Human Carcinogen.		
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	Not likely, due to the form of the product.		
Chronic effects	Causes damage to organs through prolonged or repeated exposure.		
Further information	Symptoms may be delayed.		

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results	
Nickel (CAS 7440-02-0)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	1 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)	2.923 mg/l, 96 hours	
Persistence and degradability	Not inherently	/ biodegradable.		
Bioaccumulative potential	No data avail	No data available.		
lobility in soil	No data avail	able.		
Other adverse effects	None known.			

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication	
-	Standard, 29 CFR 1910.1200.	
	All components are on the U.S. EPA TSCA Inventory List.	
TECA Section 19(b) Expert Natification (40 CEP 707 Subst D)		

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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CERCLA Hazardous Substance List (40 CFR 302.4)
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Nickel (CAS 7440-02-0)

Listed.

SARA 304 Emergency release	se notification				
Not regulated.					
OSHA Specifically Regulate	d Substances (29 CFR 19	10.1001-1050)			
Not listed.					
Superfund Amendments and Re		i (SARA)			
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes				
	Fire Hazard - No				
	Pressure Hazard - No				
CADA 200 Extremely because	Reactivity Hazard - No				
SARA 302 Extremely hazarc Not listed.	ious substance				
SARA 311/312 Hazardous chemical	Yes				
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.		
NICKEL		7440-02-0	15 - 25	-	
Other federal regulations					
Clean Air Act (CAA) Section	112 Hazardous Air Pollu	tants (HAPs) List			
Nickel (CAS 7440-02-0)					
Clean Air Act (CAA) Section	112(r) Accidental Releas	e Prevention (40 CFR	68.130)		
Not regulated.					
Safe Drinking Water Act (SDWA)	Not regulated.				
US state regulations					
US. California Controlled Su	ubstances. CA Departmer	nt of Justice (Californi	a Health and Safety C	ode Section 11100)	
Not listed.					
US. Massachusetts RTK - S	ubstance List				
Nickel (CAS 7440-02-0) US. New Jersey Worker and	Community Right-to-Kn	w Act			
Nickel (CAS 7440-02-0)					
US. Pennsylvania Worker a	nd Community Right-to-K	now Law			
Nickel (CAS 7440-02-0)	, .				
US. Rhode Island RTK					
Nickel (CAS 7440-02-0)					
US. California Proposition 6					
	contains a chemical knowr				
Nickel (CAS 7440-02	tion 65 - CRT: Listed date	Listed: October			
	2-0)	LISIEU. OCIODEI	1, 1909		
International Inventories				• •••••••••••••••••••••••••••••••••••	
Country(s) or region Australia	Inventory name	homiaal Substances (A		On inventory (yes/no)*	
	Australian Inventory of C		103)	No	
Canada Canada	Domestic Substances Lis Non-Domestic Substance			Yes No	
China	Inventory of Existing Che		hing (IECSC)	Yes	
	European Inventory of Existing One		. ,	Yes	
Europe -	Substances (EINECS)	-			
Europe	European List of Notified			No	
Japan	Inventory of Existing and		nces (ENCS)	No	
Korea	Existing Chemicals List (ECL)		No	
New Zealand	New Zealand Inventory			Yes	
Philippines	Philippine Inventory of Cl (PICCS)	nemicals and Chemica	Substances	Yes	

Country(s) or region Inventory name

*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).

16. Other information, including date of preparation or last revision

Issue date	12-10-2014
Version #	01
Disclaimer	LPS Laboratories 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 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 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.