

# SAFETY DATA SHEET

Issuing Date 21-Oct-2014 Revision Date 21-Oct-2014 Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS** product identifier

Product Name API-MODIFIED

Other means of identification

Product Code(s) 221

UN-Number UN3082

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricants, Greases and Release Products, Sealant

Uses advised against No information available

Supplier's details

**Manufacturer Address** 

Jet-Lube, Inc. 4849 Homestead Rd.

Suite 232

Houston, Texas 77028

TEL: 713-670-5700 (7:00 a.m. - 5:00 p.m.)

**Emergency telephone number** 

Emergency Telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

**Number** 1-800-424-9300 (NORTH AMERICA)

# 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1A
Specific Target Organ Toxicity (Repeated Exposure)	Category 2

### GHS Label elements, including precautionary statements

# **Emergency Overview**

Signal Word	Danger		

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#### **Hazard Statements**

- Harmful if swallowed
- Harmful if inhaled
- May cause cancer
- May damage fertility or the unborn child
- May cause damage to organs through prolonged or repeated exposure



Appearance Copper, Bronze

Physical State Semi-fluid (gel).

Odor Petroleum like

# **Precautionary Statements**

#### Prevention

- Use only outdoors or in a well-ventilated area.
- · Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- · Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Do not breathe dust/fume/gas/mist/vapors/spray.

#### **General Advice**

• If exposed or concerned: Get medical attention/advice

#### Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

# Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- · Rinse mouth.

#### Storage

· Store locked up.

#### Disposal

• Dispose of contents/container to an approved waste disposal plant.

#### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

### Other information

Very toxic to aquatic life with long lasting effects

18.5% of the mixture consists of ingredient(s) of unknown toxicity.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Lubricating greases	74869-21-9	32.5-38.5	*
A complex combination of hydrocarbons having			
carbon numbers predominantly in the range of C12			
through C50. may contain organic salts of alkali			
metals, alkaline earth metals, etc.			
Lead (powder particle diameter <1mm)	7439-92-1	29.9-31.1	*

Graphite	7782-42-5	17-19	*
Zinc (powder)	7440-66-6	11.6-12.8	*
Copper	7440-50-8	3.0-3.60	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

**Description of necessary first-aid measures** 

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately.

**Skin Contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use. If skin irritation persists, call a physician.

Inhalation Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation. If not breathing, give artificial respiration. Consult a physician.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink

plenty of water. Clean mouth with water. Call a physician or Poison Control Center

immediately.

contact with skin. Use barrier to give mouth-to-mouth resuscitation. Ensure that medical

personnel are aware of the material(s) involved, and take precautions to protect

themselves.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous

explosion hazard, particularly if fire is in a confined environment (i.e., building, cargo hold,

etc.)

Specific Hazards Arising from the Chemical

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Explosion Data** 

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Keep people away from and upwind of spill/leak.

**Environmental Precautions** 

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**Environmental Precautions** 

Do not allow material to contaminate ground water system. Do not flush into surface water

or sanitary sewer system. Should not be released into the environment.

### Methods and materials for containment and cleaning up

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

**Methods for Cleaning Up** Small spillage: Soak up with inert absorbent material. Pick up and transfer to properly

labeled containers. Large spillage: Dike far ahead of liquid spill for later disposal. Take up

mechanically and collect in suitable container for disposal.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove

and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not

eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

well-ventilated place.

Acids. Oxidizing agents. Acetylene. Vinyl compounds. Incompatible Products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead (powder particle diameter <1mm)	TWA: 0.05 mg/m <sup>3</sup>	TWA: 50 μg/m³	IDLH: 100 mg/m <sup>3</sup>
7439-92-1		Action Level: 30 μg/m <sup>3</sup> Poison,	TWA: 0.050 mg/m <sup>3</sup>
		See 29 CFR 1910.1025	
Graphite	-	TWA: 15 mg/m³ total dust	IDLH: 1250 mg/m <sup>3</sup>
7782-42-5		synthetic	TWA: 2.5 mg/m³ respirable dust
		TWA: 5 mg/m³ total dust	
		synthetic	
		(vacated) TWA: 2.5 mg/m <sup>3</sup>	
		respirable dust natural	
		(vacated) TWA: 10 mg/m³ total	
		dust synthetic	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction synthetic	
		TWA: 15 mppcf natural	
Copper	TWA: 0.2 mg/m <sup>3</sup> fume	TWA: 0.1 mg/m <sup>3</sup> fume	IDLH: 100 mg/m <sup>3</sup> dust, fume and
7440-50-8		TWA: 1 mg/m <sup>3</sup> dust and mist	mist
		(vacated) TWA: 0.1 mg/m³ Cu	TWA: 1 mg/m <sup>3</sup> dust and mist
		dust, fume, mist	TWA: 0.1 mg/m³ fume

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

### **Appropriate engineering controls**

Avoid exceeding of the given occupational exposure limits (see Section 8). Where **Engineering Measures** 

reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the

workstation location.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection Skin and Body Protection**Safety glasses with side-shields.
Impervious clothing. Nitrile gloves.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should

be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical StateSemi-fluid (gel)AppearanceCopper, BronzeOdorPetroleum likeOdor ThresholdNo information available

Property<br/>pHValues<br/>NeutralRemarks/ - Method<br/>None knownMelting Point/Range> 232 °CNone knownBoiling Point/Boiling Range> 260 °CNone known

Flash Point> 221 °CNone knownEvaporation rate< 0.01</th>BuAc = 1Flammability (solid, gas)No data availableNone known

Flammability Limits in Air

upper flammability limit 7% lower flammability limit 0.9%

<0.01 kPa @ 20°C **Vapor Pressure** None known **Vapor Density** None known >5 (air = 1) **Specific Gravity** 2.0 None known **Water Solubility** Negligible None known Solubility in other solvents Largely. None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** >260 °C None known **Decomposition Temperature** No data available None known **Viscosity** No data available None known

Flammable Properties Not flammable

**Explosive Properties**No data available **Oxidizing Properties**No data available

Other information

VOC Content (%) No data available

VOC (g/I) None

# 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Mixture reacts slowly with water resulting in evolution of hydrogen

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**Hazardous Polymerization** 

Hazardous polymerization does not occur.

### **Conditions to avoid**

None known based on information supplied.

#### Incompatible materials

Acids. Oxidizing agents. Acetylene. Vinyl compounds.

### **Hazardous decomposition products**

Metal oxides.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Inhalation** Harmful by inhalation.

**Eye Contact**Skin Contact

Contact with eyes may cause irritation.

No known hazard in contact with skin.

**Ingestion** Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricating greases	= 2280 mg/kg (Rat)	-	-
A complex combination of			
hydrocarbons having carbon			
numbers predominantly in the range			
of C12 through C50. may contain			
organic salts of alkali metals,			
alkaline earth metals, etc.			

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

# Delayed and immediate effects and also chronic effects from short and long term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.

Carcinogenicity May cause cancer. The table below indicates whether each agency has listed any

ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Lead (powder particle	A3	Group 2A	Reasonably Anticipated	X
diameter <1mm)				

# ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

**NTP: (National Toxicity Program)** 

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

**Reproductive Toxicity**Contains a known or suspected reproductive toxin.

STOT - single exposure
STOT - repeated exposure
Aspiration Hazard

No information available.
No information available.

#### Numerical measures of toxicity - Product

**Acute Toxicity** 18.5% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document: LD50 Oral 1061 mg/kg; Acute toxicity estimate

Inhalation

dust/mist4 mg/L; Acute toxicity estimateVapor29.1 mg/L; Acute toxicity estimate

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc. 74869-21-9	>1001 mg/l	LC50 96 h: > 2000 mg/L (Salmo gairdneri)		
Lead (powder particle diameter <1mm) 7439-92-1		LC50 96 h: = 0.44 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 1.17 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 1.32 mg/L static (Oncorhynchus mykiss)		EC50 48 h: = 600 µg/L (water flea)
Zinc (powder) 7440-66-6	EC50 72 h: 0.09 - 0.125 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 0.11 - 0.271 mg/L static (Pseudokirchneriella subcapitata)	LC50 96 h: 0.211-0.269 mg/L semi-static (Pimephales promelas) LC50 96 h: 2.16-3.05 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.24 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 0.41 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 0.45 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 0.59 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: = 0.59 mg/L semi-static (Pimephales promelas) LC50 96 h: = 3.5 mg/L static (Lepomis macrochirus) LC50 96 h: = 30 mg/L (Cyprinus carpio) LC50 96 h: = 7.8 mg/L static (Cyprinus carpio)		EC50 48 h: 0.139 - 0.908 mg/L Static (Daphnia magna)

Copper	EC50 96 h: 0.031 - 0.054	LC50 96 h: 0.0068 - 0.0156	-	EC50 48 h: = 0.03 mg/L
7440-50-8	mg/L static	mg/L (Pimephales		Static (Daphnia magna)
	(Pseudokirchneriella	promelas)		
	subcapitata)	LC50 96 h: < 0.3 mg/L static		
	EC50 72 h: 0.0426 - 0.0535	(Pimephales promelas)		
	mg/L static	LC50 96 h: = 0.052 mg/L		
	(Pseudokirchneriella	flow-through (Oncorhynchus		
	subcapitata)	mykiss)		
		LC50 96 h: = 0.112 mg/L		
		flow-through (Poecilia		
		reticulata)		
		LC50 96 h: = 0.2 mg/L		
		flow-through (Pimephales		
		promelas)		
		LC50 96 h: = 0.3 mg/L		
		semi-static (Cyprinus carpio)		
		LC50 96 h: = 0.8 mg/L static		
		(Cyprinus carpio)		
		LC50 96 h: = 1.25 mg/L		
		static (Lepomis macrochirus)		

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

Other Adverse Effects
No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

US EPA Waste Number D008

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Lead (powder particle	(hazardous constituent - no	Included in waste streams:	= 5.0 mg/L regulatory level	
diameter <1mm) - 7439-92-1	waste number)	F035, F037, F038, F039,		
	·	K002, K003, K005, K046,		
		K048, K049, K051, K052,		
		K061, K062, K064, K065,		
		K066, K069, K086, K100,		
		K176		ļ

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Lead (powder particle diameter <1mm)	Toxic
Zinc (powder)	Ignitable powder
Copper	Toxic

# **14. TRANSPORT INFORMATION**

DOT

UN-Number UN3082

**Proper shipping name** Environmentally hazardous substances, liquid, n.o.s.

Hazard Class

**Subsidiary Class** 

Packing Group

**Description** UN3082, Environmentally hazardous substances, liquid, n.o.s.(Lead, Zinc (powder)), 9, ,

III,Marine Pollutant

**Emergency Response Guide** 

Number

171

TDG

UN-Number UN3082

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**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. Hazard Class 9

Packing Group

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Lead, Zinc

(powder)), 9, III, Marine Pollutant

MEX

UN-Number UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s.

Hazard Class 9
Packing Group III

Description UN3082 Environmentally hazardous substances, liquid, n.o.s.(Lead, Zinc (powder)), 9, III

**ICAO** 

UN-Number UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc (powder)), 9, III

<u>IATA</u>

UN-Number UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
ERG Code 9L

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc (powder)), 9, III

IMDG/IMO

UN-Number UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
EmS No. F-A, S-F

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc (powder)), 9,

III, Marine Pollutant

RID

UN-Number UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
Classification Code M6

**Description** UN3082 Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc (powder)), 9, III

**ADR** 

**UN-Number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
Classification Code M6
Tunnel Restriction Code (E)

**Description** UN3082 Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc (powder)), 9, III(E)

**ADN** 

UN-No UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
Classification Code M6

Special Provisions 274, 335, 601

**Description** UN3082 Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc (powder)), 9, III

Hazard Labels 9 Limited Quantity LQ7

# 15. REGULATORY INFORMATION

### **International Inventories**

TSCA Complies DSL Complies

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

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	CAS-No	Weight %	SARA 313 - Threshold Values %
Lead (powder particle diameter <1mm)	7439-92-1	29.9-31.1	0.1
Zinc (powder)	7440-66-6	11.6-12.8	1.0
Copper	7440-50-8	3.0-3.60	1.0

# SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

### **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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Lead (powder particle diameter <1mm)		X	X	
Zinc (powder)		X	X	
Copper		X	X	

### **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	RQ
		RQs	
Lead (powder particle diameter	10 lb		RQ 10 lb final RQ
`` <1mm)			RQ 4.54 kg final RQ
Zinc (powder)	1000 lb		RQ 454 kg final RQ
			RQ 1000 lb final RQ
Copper	5000 lb		RQ 5000 lb final RQ
			RQ 2270 kg final RQ

# U.S. State Regulations

# California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Lead (powder particle diameter <1mm)	7439-92-1	Carcinogen
		Developmental
		Female Reproductive
		Male Reproductive

# **U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

		Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
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Lead (powder particle diameter <1mm)	Х	Х	Х	Х	Х
Graphite	X	X	X		X
Zinc (powder)	X	X	X		X
Copper	X	X	Х	X	Х
Calcium oxide	X	X	X		X

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -	
<u>HMIS</u>	Health Hazard 1*	Flammability 1	Physical Hazard 0	Personal Protection X	

<sup>\*</sup>Indicates a chronic health hazard.

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501 21-Oct-2014

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#### **General Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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