



A CSW Industrials Company

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Code(s) WPS-JLI-003

Product Name API-MODIFIED

Issuing Date 06-Feb-2012

Revision Date 05-Jun-2018

Version 1

CGHS / English



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SECTION 1: Identification

Product identifier

Product Name API-MODIFIED

Other means of identification

Product Code(s) 221

UN-No. UN3082

Synonyms None

Details of the supplier of the safety data sheet

Supplier Identification Jet-Lube LLC

Address 930 Whitmore Drive
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Emergency telephone number

Company Emergency Phone Number 1-800-699-6318

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

China



Recommended use of the chemical and restrictions on use

Recommended Use Sealant Lubricants, Greases and Release Products

Uses advised against No information available

Section 2: HAZARDS IDENTIFICATION

Emergency Overview

Irritating to skin
 Contains a known or suspected carcinogen
 Very toxic to aquatic organisms
 VERY TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

Appearance Copper Bronze **Physical state** Paste / Gel **Odor** Petroleum

GHS Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 5
Acute toxicity - Inhalation (Gases)	Category 5
Acute toxicity - Inhalation (Vapors)	Category 5
Acute toxicity - Inhalation (Dusts/Mists)	Category 5
Skin corrosion/irritation	Category 3
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1A
Effects on or via lactation	Yes
Specific target organ toxicity (repeated exposure)	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label elements



Signal word

Danger

Hazard statements

- H302 - Harmful if swallowed
- H313 - May be harmful in contact with skin
- H316 - Causes mild skin irritation
- H333 - May be harmful if inhaled
- H350 - May cause cancer
- H360 - May damage fertility or the unborn child
- H362 - May cause harm to breast-fed children
- H372 - Causes damage to organs through prolonged or repeated exposure
- H410 - Very toxic to aquatic life with long lasting effects

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/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray

Avoid contact during pregnancy/while nursing
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not get in eyes, on skin, or on clothing
Avoid release to the environment

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)
IF exposed or concerned: Call a POISON CENTER or doctor
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a POISON CENTER or doctor
Call a POISON CENTER or doctor if you feel unwell
IF ON SKIN: Wash with plenty of water and soap
Take off immediately all contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call a POISON CENTER or doctor
Rinse mouth
Collect spillage

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Physical hazards

Not applicable

Health hazards

Immediate Health Effects: harmful. Causes skin irritation (pain, redness and swelling).

Chronic effects: Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. May cause harm to breastfed babies. Not to be used by pregnant workers and workers who have recently given birth or who are breastfeeding.
Target organ(s).

Environmental hazards

Dangerous for the environment This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination

Other hazards

Not applicable

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical name	CAS-No	Percent
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	33-37
Lead (powder particle diameter <1mm)	7439-92-1	28-34
Graphite	7782-42-5	16-19
Zinc (powder)	7440-66-6	8-13
Copper (flake)	7440-50-8	1 - 5

Calcium oxide	1305-78-8	0-1
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Section 4: First aid measures

First aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Get immediate medical advice/attention. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Coughing and/ or wheezing. Difficulty in breathing. Prolonged contact may cause redness and irritation.

For emergency responders

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapor or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures

Extinguishing media

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

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Hazardous Combustion Products Carbon oxides.

Special protective actions for fire-fighters



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

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing.

Refer to protective measures listed in Sections 7 and 8.

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

See Section 8 for information on appropriate personal protective equipment

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible materials None known based on information supplied.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits .

Chemical name	China	ACGIH TLV
Lead (powder particle diameter <1mm) - 7439-92-1	TWA: 0.05 mg/m ³ dust TWA: 0.03 mg/m ³ fume STEL: 0.15 mg/m ³ dust STEL: 0.09 mg/m ³ fume	TWA: 0.05 mg/m ³
Graphite - 7782-42-5	TWA: 4 mg/m ³ total dust TWA: 2 mg/m ³ respirable dust STEL: 8 mg/m ³ total dust STEL: 4 mg/m ³ respirable dust	TWA: 2 mg/m ³ respirable particulate matter all forms except graphite fibers
Zinc (powder) - 7440-66-6		STEL: 10 mg/m ³ respirable fraction TWA: 2 mg/m ³ respirable fraction
Copper (flake) - 7440-50-8	TWA: 1 mg/m ³ dust TWA: 0.2 mg/m ³ fume STEL: 2.5 mg/m ³ dust STEL: 0.6 mg/m ³ fume	TWA: 0.2 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist
Calcium oxide - 1305-78-8	TWA: 2 mg/m ³ STEL: 5 mg/m ³	TWA: 2 mg/m ³

Legend See section 16 for terms and abbreviations

Biological occupational exposure limits

Chemical name	Biological standards	Monitoring and observation processes
Lead (powder particle diameter <1mm) - 7439-92-1	2.0 µmol/L (blood, anytime after 3 weeks of exposure, Lead) 400 µg/L (blood, anytime after 3 weeks of exposure, Lead)	WS/T 112-1999

Monitoring and observation processes If the referenced standard is not applicable at the point where the product is used, a suitable equivalent standard published by local standards organizations or competent authorities should be consulted.

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).

Skin and body protection Impervious clothing. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Hand Protection Wear suitable gloves. Impervious gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

Section 9: Physical and chemical properties



Physical and Chemical Properties

Physical state	Paste / Gel
Appearance	Copper Bronze
Odor	Petroleum
Color	No information available
Odor Threshold	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	7	
Melting / freezing point	232 °C	None known
Boiling point / boiling range	260 °C	
Flash Point	> 221 °C	Open cup
Evaporation Rate	< No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	7%	
Lower flammability limit	0.9%	
Vapor pressure	&<0.01&20	None known
Vapor density	>5	None known
Relative density	2.0	
Water Solubility	Negligible	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	Not Applicable	
Autoignition temperature	>260 °C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	None
None	
Liquid Density	No information available
Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

Section 10: Stability and reactivity

Stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Conditions to avoid	Excessive heat.
Incompatible materials	None known based on information supplied.
Hazardous Decomposition Products	Carbon oxides.

Section 11: Toxicological information

Acute Toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	10.77 mg/kg
ATEmix (dermal)	5.14 mg/kg
ATEmix (inhalation-gas)	4,624.00 mg/L
ATEmix (inhalation-dust/mist)	0.05 mg/L
ATEmix (inhalation-vapor)	11.00 mg/L

Unknown acute toxicity

- 33.65 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 68.35 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 68.35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 68.35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 68.35 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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.	= 2280 mg/kg (Rat)	-	-
Zinc (powder)	= 630 mg/kg (Rat)	-	-
Calcium oxide	= 500 mg/kg (Rat)	-	-

Legend

See section 16 for terms and abbreviations

- Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation.
- Serious eye damage/eye irritation** No information available.
- Respiratory or skin sensitization** No information available.
- Germ cell mutagenicity** No information available.
- Carcinogenicity** Classification based on data available for ingredients. Contains a known or suspected carcinogen.

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

Chemical name	China	IARC
Lead (powder particle diameter <1mm)	Possibly carcinogenic to humans	Group 2A

IARC (International Agency for Research on Cancer)
 Group 2A - Probably Carcinogenic to Humans

- Reproductive toxicity** Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. May cause harm to breastfed babies.
- Specific Target Organ Toxicity - Single Exposure** No information available.



Specific target organ toxicity - Repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

Section 12: Ecological information

Ecotoxicity

Unknown aquatic toxicity 53.2 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Ecotoxicity Very toxic to aquatic organisms. .

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.	>1001 mg/l	96h LC50: > 2000 mg/L (Salmo gairdneri)	-	-
Lead (powder particle diameter <1mm)	-	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)	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	-	EC50 48 h: 0.139 - 0.908 mg/L Static (Daphnia magna)

		(Cyprinus carpio) LC50 96 h: = 0.59 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: = 2.66 mg/L 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)		
Copper (flake)	96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: < 0.3 mg/L (Pimephales promelas) 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.8 mg/L (Cyprinus carpio) 96h LC50: = 1.25 mg/L (Lepomis macrochirus)	-	48h EC50: = 0.03 mg/L
Calcium oxide	-	LC50 96 h: = 1070 mg/L static (Cyprinus carpio)	-	-

Persistence and Degradability No information available.

Bioaccumulation There is no data for this product.

Mobility in soil No information available.

Mobility No information available.

Other adverse effects No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with



products environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14: Transport information

IMDG/IMO

UN-No. UN3082
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
 Hazard Class 9
 Packing Group III
 EmS-No. F-A, S-F
 Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO
 Description UN3082, Environmentally hazardous substance, liquid, n.o.s.(Lead, Zinc (powder)), 9, III, Marine Pollutant

IATA

UN-No. 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

China

UN Number UN3082
 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Hazard Class 9
 Packing group III
 Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO
 Environmental hazard Yes
 Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC, COPPER), 9, III

Section 15: Regulatory information

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

National Regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalog of occupational hazard factors: Listed. Chemical hazards.

Catalog of occupational diseases: Listed. Occupational poisoning.

Chemical name	Category
Lead (powder particle diameter <1mm)	Chemical hazards
Graphite	Inhalation of dust/particles
Copper (flake)	Chemical hazards
Calcium oxide	Chemical hazards

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed. Weight-% 12

Chemical name	Inventory of hazardous chemicals
Zinc (powder)	Listed

GB 18218-2009 Identification of major hazard installations for dangerous chemicals

Category
Toxic substance

Threshold quantity (T)
50

List of hazardous chemicals under priority management Not applicable

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods

Chemical name	TWA (time-weighted average)	STEL (Short Term Exposure Limit)	Maximum limit value
Lead (powder particle diameter <1mm)			0.05 mg/m ³ 0.03 mg/m ³

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Chemical name	Harmonized system code
Lead (powder particle diameter <1mm)	2853009021

Measures for the Environmental Management of New Chemical Substances

IECSC Complies
IECSC - China Inventory of Existing Chemical Substances

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

Section 16: OTHER INFORMATION

Prepared By Product Stewardship
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Latham, NY 12110
1-800-572-6501

Issuing Date 06-Feb-2012

Revision Date 05-Jun-2018

Revision Note 1 The symbol (*) in the margin of this SDS indicates that this line has been revised 14

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value - Skin designation
C Carcinogen

Disclaimer

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Product Code(s)
Product Name

221
API-MODIFIED

Revision Date 05-Jun-2018

End of Safety Data Sheet

