

Safety Data Sheet

CU1800 EXTREME PRESSURE LUB, 16oz PASTE

Version 4.0

Revision Date 08/15/2014

Print Date 08/19/2014

SECTION 1. IDENTIFICATION

Commercial Product Name : CU1800 EXTREME PRESSURE LUB, 16oz PASTE
Product number : 0893180016
SDS-Identcode : 10035302
Product Use Description : Anti-friction agent and lubricant
Company : Wurth USA Inc.
93 Grant St.
07446 Ramsey, NJ
USA
Telephone : +1 201 825 27 10
Telefax : +1 201 825 16 43
Responsible/issuing person : prodsafe@wuerth.com
Emergency telephone number : +1 800 255 3924

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight percent- Weight percent
baseoil - unspecified	64742-52-5	>= 50 - < 70
Graphite	7782-42-5	>= 30 - < 50
copper	7440-50-8	>= 10 - < 20
zinc oxide	1314-13-2	>= 5 - < 10
aluminium powder (stabilised)	7429-90-5	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move

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	out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
Inhalation	: If breathed in, move person into fresh air. If symptoms persist, call a physician. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Skin contact	: In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.
Eye contact	: Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

Notes to physician

Treatment : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

Form	: paste
Flash point	: 246.1 °C (475.0 °F)
Suitable extinguishing media	: Water mist Foam Dry chemical Carbon dioxide (CO ₂)
Specific hazards during firefighting	: Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

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- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
Use personal protective equipment.
Remove all sources of ignition.
Avoid contact with skin and eyes.
Ensure adequate ventilation, especially in confined areas.
Immediately evacuate personnel to safe areas.
Contaminated surfaces will be extremely slippery.
Avoid inhalation of vapour or mist.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
Do not flush with water.
Clean contaminated surface thoroughly.

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CERCLA Hazardous substances and corresponding RQs:

7440-50-8	5,000 lbs <i>final RQ</i>
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SECTION 7. HANDLING AND STORAGE**Handling**

Handling : For personal protection see section 8.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
Take precautionary measures against static discharges.
Use appropriate container to avoid environmental contamination.
Do not carry cloths that have come into contact with the product in your clothing.
Handle with care.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Keep away from heat and sources of ignition.
Do not smoke.
No sparking tools should be used.
Electrical equipment should be protected to the appropriate standard.

Dust explosion class : Not applicable

Storage

Requirements for storage areas and containers : Store in a place accessible by authorized persons only.
Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from heat.

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Keep away from direct sunlight.

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines

Components	CAS-No.	List	Type:	Value	Update
baseoil - unspecified	64742-52-5	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19
Graphite	7782-42-5	NIOSH REL	TWA	2.5 mg/m3	2013-10-08
		OSHA Z-1	TWA	15 mg/m3	2007-01-01
		OSHA Z-1	TWA	5 mg/m3	2007-01-01
		ACGIH	TWA	2 mg/m3	2007-01-01
		OSHA Z-3	TWA	15 Million particles per cubic foot	2011-07-01
copper	7440-50-8	OSHA P0	TWA	2.5 mg/m3	1989-01-19
		OSHA Z-1	TWA	1 mg/m3	2011-07-01
		ACGIH	TWA	1 mg/m3	2010-03-01
		OSHA P0	TWA	0.1 mg/m3	1989-01-19
		OSHA P0	TWA	1 mg/m3	1989-01-19
		NIOSH REL	TWA	1 mg/m3	2013-10-08
		NIOSH REL	TWA	1 mg/m3	2013-10-08
zinc oxide	1314-13-2	ACGIH	TWA	2 mg/m3	2007-01-01
		ACGIH	STEL	10 mg/m3	2007-01-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		NIOSH REL	C	15 mg/m3	2013-10-08
		OSHA Z-1	TWA	15 mg/m3	2007-01-01
		OSHA Z-1	TWA	5 mg/m3	2007-01-01
		OSHA Z-1	TWA	5 mg/m3	2007-01-01
		OSHA P0	TWA	10 mg/m3	1989-01-19
		OSHA P0	TWA	5 mg/m3	1989-01-19
aluminium powder (stabilised)	7429-90-5	OSHA P0	TWA	5 mg/m3	1989-01-19
		OSHA P0	STEL	10 mg/m3	1989-01-19
		NIOSH REL	TWA	5 mg/m3	2005-09-01
		NIOSH REL	TWA	10 mg/m3	2005-09-01
		OSHA Z-1	TWA	15 mg/m3	2011-07-01
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	15 mg/m3	1989-01-19

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		OSHA P0	TWA	5 mg/m3	1989-01-19
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		ACGIH	TWA	1 mg/m3	2013-03-01
baseoil - unspecified	64741-88-4	ACGIH	TWA	5 mg/m3	2013-03-01
		NIOSH REL	TWA	5 mg/m3	2013-10-08
		NIOSH REL	ST	10 mg/m3	2013-10-08
		OSHA Z-1	TWA	5 mg/m3	2011-07-01
		OSHA P0	TWA	5 mg/m3	1989-01-19

- Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.
- Eye protection : Wear eye/face protection.
- Hand protection : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Skin and body protection : Wear suitable protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
 General industrial hygiene practice.
 Avoid breathing vapours, mist or gas.
 Avoid contact with skin, eyes and clothing.
 When using do not eat, drink or smoke.
 Wash hands before breaks and at the end of workday.
 Follow the skin protection plan.
 Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : paste
 Physical state : liquid

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Colour	: dark grey
Odour	: fatty odour
Odour Threshold	: No data available
Flash point	: 246.1 °C (475.0 °F)
Ignition temperature	: No data available
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability	: No data available
Molecular weight	: No data available
pH	: Not applicable
Boiling point/boiling range	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Evaporation rate	: No data available
Density	: 1.19 g/cm ³
Relative density	: No data available
Bulk density	: No data available
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Volatile organic compounds (VOC) content	: 0 g/l
Volatile organic compounds (VOC) content	: 1 %

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Hazardous decomposition products	: Carbon oxides Hydrocarbons
Hazardous reactions	: Reacts violently with water. Contact with water liberates extremely flammable

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gases.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenicity : No data is available on the product itself.
Reproductive toxicity : No data is available on the product itself.
Teratogenicity : No data is available on the product itself.

Component:

Graphite

7782-42-5

Acute oral toxicity: LD50 Rat
Dose: > 2,000 mg/kg

Acute inhalation toxicity: LD50 Rat
Dose: > 2,000 mg/l Method: OECD Test Guideline 403

Skin irritation: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Eye irritation: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Animal testing did not show any mutagenic effects.

Reproductive toxicity: Animal testing did not show any effects on fertility.

Teratogenicity: Animal testing did not show any effects on foetal development.

copper

7440-50-8

Skin irritation: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Eye irritation: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

zinc oxide

1314-13-2

Acute oral toxicity: LD50 Rat
Dose: > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Rat
Dose: > 2,000 mg/kg
Method: OECD Test Guideline 402

Acute inhalation toxicity: LC50 Rat

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Dose: > 5.7 mg/Exposure time: 4 h
Method: OECD Test Guideline 403

Skin irritation: Rabbit
Result: No skin irritation

Eye irritation: Rabbit
Result: No eye irritation

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity: No toxicity to reproduction

Carcinogenicity:**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12. ECOLOGICAL INFORMATION

Volatile organic compounds (VOC) content : 1 %

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Component:

Graphite

7782-42-5

Toxicity to fish:

LC50

Species: Danio rerio (zebra fish)

Dose: > 100 mg/l

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zinc oxide

1314-13-2

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: > 100 mg/l

Exposure time: 48 h

Toxicity to algae:

EC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 100 mg/l

Exposure time: 72 h

Toxicity to bacteria:

EC50

Species:

Dose: > 1,012.5 mg/l

Exposure time: 3 h

Toxicity to fish:

LC50

Species: Pimephales promelas (fathead minnow)

Dose: ca. 500 µg/l

Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 1.7 mg/l

Exposure time: 48 h

Toxicity to algae:

ErC50

Species: Pseudokirchneriella subcapitata (microalgae)

Dose: 136 µg/l

Toxicity to algae:

NOEC

Species: Pseudokirchneriella subcapitata (microalgae)

Dose: 24 µg/l

Toxicity to bacteria:

Respiration inhibition of activated sludge EC50

Species:

Dose: > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

SECTION 13. DISPOSAL CONSIDERATIONS

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Adequate disposal : In accordance with local and national regulations.
Do not dispose of waste into sewer.
Do not dispose of together with household waste.
This material and its container must be disposed of as hazardous waste.

SECTION 14. TRANSPORT INFORMATION**DOT 49 CFR**

Not dangerous goods

TDGR

Not dangerous goods

ICAO/IATA-DGR

Not dangerous goods

IMDG-Code

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : No SARA Hazards

CERCLA Reportable Quantity : Calculated RQ exceeds reasonably attainable upper limit.

EPCRA_313

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

The following components are subject to reporting levels established by SARA Title III, Section 313:

<u>Components</u>	<u>CAS-No.</u>
copper	7440-50-8
aluminium powder (stabilised)	7429-90-5
zinc oxide	1314-13-2

EPCRA_302

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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PENN RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

<u>Components</u>	<u>CAS-No.</u>
baseoil - unspecified	64742-52-5
Graphite	7782-42-5
copper	7440-50-8
zinc oxide	1314-13-2
aluminium powder (stabilised)	7429-90-5

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<u>Components</u>	<u>CAS-No.</u>
baseoil - unspecified	64742-52-5
Graphite	7782-42-5
copper	7440-50-8
aluminium powder (stabilised)	7429-90-5

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<u>Components</u>	<u>CAS-No.</u>
baseoil - unspecified	64742-52-5
Graphite	7782-42-5
copper	7440-50-8
zinc oxide	1314-13-2
aluminium powder (stabilised)	7429-90-5
lithium carbonate	554-13-2

California Prop. 65

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

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

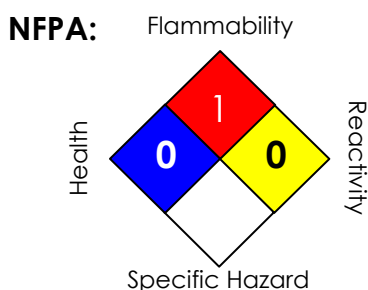
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SECTION 16. OTHER INFORMATION
Further information

HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL	0

0 = Insignificant, 1 = Slight,
 2 = Moderate, 3 = High, 4 = Extreme

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.

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