

1 Identification

- **Product identifier**
- **Trade name:** CAT® HYDRAULIC HAMMER PASTE
- **Application of the substance / the mixture**
Only for proper handling.
Grease
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MOTOREX AG
Bern–Zürich–Strasse 31, Postfach
CH–4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

Caterpillar Inc.
Peoria, Illinois 61629 USA
www.cat.com
- **Information department:** msds@motorex.com
- **Emergency telephone number:**
USA + Kanada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.
-
- **Label elements**
 - **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**
Polysulfides, di-tert-dodecyl
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts
- **Hazard statements**
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.
P302+P352 If on skin: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

- **HMS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0
FIRE 1 Fire = 1
REACTIVITY 0 Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 68425-15-0 EINECS: 270-335-7	Polysulfides, di-tert-dodecyl Sensitization - Skin 1, H317	≥0.1-<1%
CAS: 1471316-72-9 EC number: 939-603-7	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts Sensitization - Skin 1, H317	≥0.1-<1%
CAS: 7440-50-8 EINECS: 231-159-6	copper Acute Toxicity - Inhalation 3, H331; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Toxicity - Oral 4, H302	≥0.1-<0.25%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Remove residues with soap and water.
Remove contaminated clothing immediately.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Consult a physician if irritation develops.
- **After swallowing:**
Do not induce vomiting. Do not take in resorption stimulating agents.
Consult a physician who will decide on need and method of emptying the stomach.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

US

(Contd. on page 3)

Printing date 03/07/2023

Reviewed on 03/07/2023

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 2)

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** DO NOT USE WATER JET
- **Special hazards arising from the substance or mixture**
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Aliphatic and aromatic pyrolysis products
 - Nitrogen oxides (NO_x)
 - Sulphur dioxide (SO₂)
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
7440-50-8	copper	3 mg/m ³

· PAC-2:		
7440-50-8	copper	33 mg/m ³

· PAC-3:		
7440-50-8	copper	200 mg/m ³

- **Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
 - Reaction with oxidizing agents possible
- **Further information about storage conditions:**
 - The recommended storage temperature is (deg.C): ≤ 50°C
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

US

(Contd. on page 4)

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 3)

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

7440-50-8 copper

PEL	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
REL	Long-term value: 1* 0.1** mg/m ³ as Cu *dusts and mists **fume
TLV	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume; as Cu

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Additional information about design of technical systems:** No further data; see section 7.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Not necessary if room is well-ventilated.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling.

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Color:**

Copper colored

(Contd. on page 5)

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 4)

· Odor:	Characteristic
· Odor threshold:	Not determined.
· Melting point/Melting range:	>250 °C (>482 °F)
· Boiling point/Boiling range:	>250 °C (>482 °F) (DIN EN ISO 3405)
· Flammability (solid, gaseous):	Not applicable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>250 °C (>482 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	2 NLGI
· Kinematic:	Not determined.
· Consistency	
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	0.96 g/cm ³ (8.011 lbs/gal) (ASTM D 4052)
· Relative density	Not determined.
· Vapor density	Not determined.

· Other information	
· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent separation test	
· VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
· VOC (EU)	0.00 %
· Change in condition	
· Drip point:	>250 °C (>482 °F)
· Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:**
At high temperatures may produce hazardous decomposition products such as Carbon monoxide and dioxide, smoke, oxides of nitrogen. Aldehydes, ketones, carboxylic acids. Sulfur oxides (SOx).

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

(Contd. on page 6)

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 5)

· **LD/LC50 values that are relevant for classification:**

68425-15-0 Polysulfides, di-tert-dodecyl

Oral	LD50	19,550 mg/kg (rat)
	NOAEL	1,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50 / 4h	15.5 mg/l (rat)

7440-50-8 copper

Oral	LD50	300-2,500 mg/kg (rat)
	NOAEL	1,000 ppm (mouse) 1,000 ppm (rat)
	LOAEL	2,000 ppm (mouse) 2,000 ppm (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50 / 4h	5.11 mg/l (rat)
	NOAEL	2 mg/m ³ (rat)
	LOEL	0.2 mg/m ³ (rat)

· **Sensitization:** May cause an allergic skin reaction.

· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

LC50	>100 mg/l/96h (Brachydanio rerio)
EC50	>100 mg/l/72h (Desmodesmus subspicatus)
EC50	>100 mg/l/48h (Daphnia Magna)
NOEC	>100 mg/l/72h (Desmodesmus subspicatus)

68425-15-0 Polysulfides, di-tert-dodecyl

LC50	100 mg/l/96h (fish)
LC0	100 mg/l/96h (fish)
LL50	100 mg/l/96h (fish)
NOEC	0.08 mg/l/72h (algae / cyanobacteria) 10-10,000 mg/l/72h (microorganisms)
NOEC	100 mg/l/96h (fish)
NOEC	0.1 mg/l/48h (aquatic invertebrates)

7440-50-8 copper

LC50	0.0028-9.15 mg/l/96h (fish)
LC50	0.0005-0.302 mg/l/48h (aquatic invertebrates) 0.0059-0.0302 mg/l/48h (fish)

(Contd. on page 7)

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 6)

EC50	0.012-0.0238 mg/l/24h (aquatic invertebrates)
EC50	0.005-0.042 mg/l/96h (aquatic invertebrates) 0.047 mg/l/96h (algae / cyanobacteria)
EC50	0.0165-0.987 mg/l/72h (algae / cyanobacteria)
EC50	0.001-1.213 mg/l/48h (aquatic invertebrates)
NOEC	0.4-1 g/kg/21d (terrestrial arthropods) 0.0234-0.0449 g/kg/21d (sediment)
NOEC	0.0279-1 g/kg/28d (terrestrial arthropods) 0.042 g/kg/28d (terrestrial plants) 0.0183-0.5809 g/kg/28d (sediment)
NOEC	0.0122-0.0292 mg/l/96h (fish) 3.818 mg/l/96h (microorganisms)
NOEC	3.563-3.8 mg/l/48h (microorganisms)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential**

68425-15-0 Polysulfides, di-tert-dodecyl

Partition coefficient 6.2-12.45 [---] (log Kow) (Bioaccumulation)

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Not hazardous for water.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, ADR/RID/ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **DOT, ADR/RID/ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **DOT, ADR/RID/ADN, ADN, IMDG, IATA**

· **Class** Void

(Contd. on page 8)

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 7)

- | | |
|--|-----------------|
| · Packing group | Void |
| · DOT, ADR/RID/ADN, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | Yes |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

15 Regulatory information

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

No further relevant information available.

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

7440-50-8 | copper

- **TSCA (Toxic Substances Control Act):**

68425-15-0 | Polysulfides, di-tert-dodecyl

ACTIVE

7440-50-8 | copper

ACTIVE

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

7440-50-8 | copper

D

- **TLV (Threshold Limit Value)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **Chemical safety assessment: A Chemical Safety Assessment has been carried out.**

US

(Contd. on page 9)

Trade name: CAT® HYDRAULIC HAMMER PASTE

(Contd. of page 8)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008. No special training instructions to ensure protection of human health and environment are required.

· **Department issuing SDS:** Abteilung Produktsicherheit

· **Date of preparation / last revision** 03/07/2023

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Sensitization - Skin 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· * **Data compared to the previous version altered.**