



# SAFETY DATA SHEET

## 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <u>Copper Anti-Seize &amp; Lubricating Compound</u> |
| <b>Other means of identification</b>                          |   |
| <b>Product code</b>   | SL35901, SL35903                                    |
| <b>Recommended use</b>  | Anti-seize and lubricating compound                 |
| <b>Recommended restrictions</b>                               | None known.   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |

## 2. Hazard(s) identification

|  |  |
|--|--|
| <b>Physical hazards</b>                          | Not classified.  |
| <b>Health hazards</b>                            | Not classified.  |
| <b>Environmental hazards</b>                     | Not classified.  |
| <b>OSHA defined hazards</b>                      | Not classified.  |
| <b>Label elements</b>                            |  |
| <b>Hazard symbol</b>                             | None.  |
| <b>Signal word</b>                               | None.  |
| <b>Hazard statement</b>                          | The mixture does not meet the criteria for classification.   |
| <b>Precautionary statement</b>                   |  |
| <b>Prevention</b>                                | Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. Observe good industrial hygiene practices. |
| <b>Response</b>                                  | Wash hands after handling.   |
| <b>Storage</b>                                   | Store away from incompatible materials.  |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national regulations.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.  |

## 3. Composition/information on ingredients

### Mixtures

| <b>Chemical name</b>                                   | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
|--|---------------------------------|-------------------|----------|
| Distillates (petroleum), hydrotreated heavy naphthenic |                                 | 64742-52-5        | 50 - 60  |
| Residual oils (petroleum), hydrotreated                |                                 | 64742-57-0        | 10 - 20  |
| Talc (not containing asbestos fibers)                  |                                 | 14807-96-6        | 10 - 20  |
| Calcium carbonate                                      |                                 | 1317-65-3         | 5 - 10   |
| Copper   |                                 | 7440-50-8         | 5 - 10   |

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>   | Remove and isolate contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.                                  |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Rinse mouth. Drink plenty of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. Get medical advice/attention if you feel unwell. |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |

#### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry powder.                              |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                         |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.  |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire-fighting equipment/instructions</b>                          | Cool containers exposed to heat with water spray and remove container, if no risk is involved. |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

#### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | This product is miscible in water. Prevent further leakage or spillage if safe to do so. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.   |

#### 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Avoid release to the environment. Use care in handling/storage. For product usage instructions, please see the product label. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).  |

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                        | Type | Value                | Form                 |
|-----------------------------------|------|----------------------|----------------------|
| Calcium carbonate (CAS 1317-65-3) | PEL  | 5 mg/m <sup>3</sup>  | Respirable fraction. |
|                                   |      | 15 mg/m <sup>3</sup> | Total dust.          |

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components  | Type | Value  | Form                    |
|---|------|--|-------------------------|
| Copper (CAS 7440-50-8)  | PEL  | 1 mg/m <sup>3</sup><br>0.1 mg/m <sup>3</sup>             | Dust and mist.<br>Fume. |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | PEL  | 5 mg/m <sup>3</sup>                                      | Mist.                   |
| Residual oils (petroleum), hydrotreated (CAS 64742-57-0)                | PEL  | 2000 mg/m <sup>3</sup><br>500 ppm<br>5 mg/m <sup>3</sup> | Mist.                   |

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

| Components   | Type | Value                             | Form        |
|--|------|-----------------------------------|-------------|
| Talc (not containing asbestos fibers) (CAS 14807-96-6) | TWA  | 0.3 mg/m <sup>3</sup>             | Total dust. |
|  |      | 0.1 mg/m <sup>3</sup><br>20 mppcf | Respirable. |
|  |      | 2.4 mppcf                         | Respirable. |

**US. ACGIH Threshold Limit Values**

| Components  | Type | Value               | Form                 |
|---|------|---------------------|----------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | TWA  | 5 mg/m <sup>3</sup> | Inhalable fraction.  |
| Residual oils (petroleum), hydrotreated (CAS 64742-57-0)                | TWA  | 5 mg/m <sup>3</sup> | Inhalable fraction.  |
| Talc (not containing asbestos fibers) (CAS 14807-96-6)                  | TWA  | 2 mg/m <sup>3</sup> | Respirable fraction. |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components  | Type    | Value                                       | Form                    |
|---|---------|---|-------------------------|
| Calcium carbonate (CAS 1317-65-3)                                       | TWA     | 5 mg/m <sup>3</sup>                         | Respirable.             |
| Copper (CAS 7440-50-8)  | TWA     | 10 mg/m <sup>3</sup><br>1 mg/m <sup>3</sup> | Total<br>Dust and mist. |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) | Ceiling | 1800 mg/m <sup>3</sup>                      |                         |
|   | STEL    | 10 mg/m <sup>3</sup>                        | Mist.                   |
|   | TWA     | 5 mg/m <sup>3</sup>                         | Mist.                   |
| Residual oils (petroleum), hydrotreated (CAS 64742-57-0)                | STEL    | 10 mg/m <sup>3</sup>                        | Mist.                   |
|   | TWA     | 5 mg/m <sup>3</sup>                         | Mist.                   |
| Talc (not containing asbestos fibers) (CAS 14807-96-6)                  | TWA     | 2 mg/m <sup>3</sup>                         | Respirable.             |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

Occupational Exposure Limits are not relevant to the current physical form of the product.

**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. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection</b>                |  |
| <b>Hand protection</b>                | Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC).   |
| <b>Other</b>                          | Wear suitable protective clothing.   |
| <b>Respiratory protection</b>         | If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels. |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.  |

## 9. Physical and chemical properties

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### Appearance

|   |  |
|---|--|
| <b>Physical state</b>                               | Solid.                                   |
| <b>Form</b>   | Semi-solid gel.                          |
| <b>Color</b>  | Copper.                                  |
| <b>Odor</b>   | Petroleum.                               |
| <b>Odor threshold</b>                               | Not available.                           |
| <b>pH</b>   | Neutral                                  |
| <b>Melting point/freezing point</b>                 | > 449.6 °F (> 232 °C)                    |
| <b>Initial boiling point and boiling range</b>      | > 500 °F (> 260 °C)                      |
| <b>Flash point</b>                                  | > 429.8 °F (> 221 °C) Cleveland Open Cup |
| <b>Evaporation rate</b>                             | Very slow.                               |
| <b>Flammability (solid, gas)</b>                    | Not available.                           |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | 0.9                                      |
| <b>Flammability limit - upper (%)</b>               | 7  |
| <b>Vapor pressure</b>                               | < 0.01 kPa                               |
| <b>Vapor density</b>                                | > 5 (air = 1)                            |
| <b>Relative density</b>                             | 1.09                                     |
| <b>Solubility (water)</b>                           | Insoluble.                               |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                           |
| <b>Auto-ignition temperature</b>                    | > 500 °F (> 260 °C)                      |
| <b>Decomposition temperature</b>                    | Not available.                           |
| <b>Viscosity (kinematic)</b>                        | Not available.                           |
| <b>Percent volatile</b>                             | 0 %                                      |

## 10. Stability and reactivity

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|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Heat, flames and sparks. Contact with incompatible materials.                                 |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Acetylene. Vinyl compounds.  |
| <b>Hazardous decomposition products</b>   | Carbon oxides. Hydrocarbon fumes and smoke.   |

## 11. Toxicological information

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### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful.   |
| <b>Skin contact</b> | Prolonged skin contact may cause temporary irritation.   |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.   |
| <b>Ingestion</b>    | May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

| Product                                  | Species | Test Results         |
|--|---------|----------------------|
| Copper Anti-Seize & Lubricating Compound |         |                      |
| <b>Acute</b>                             |         |                      |
| <b>Dermal</b>                            |         |                      |
| LD50                                     | Rabbit  | 3760 mg/kg estimated |
| <b>Oral</b>                              |         |                      |
| LD50                                     | Rat     | 2372 mg/kg           |

\* Estimates for product may be based on additional component data not shown.

|   |  |
|---|--|
| <b>Skin corrosion/irritation</b>                          | Prolonged skin contact may cause temporary irritation.   |
| <b>Serious eye damage/eye irritation</b>                  | Direct contact with eyes may cause temporary irritation.   |
| <b>Respiratory sensitization</b>                          | Not a respiratory sensitizer.  |
| <b>Skin sensitization</b>                                 | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                                    | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not an aspiration hazard.  |
| <b>Further information</b>                                | This product has no known adverse effect on human health.  |

## 12. Ecological information

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**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.

| Product                                  | Species | Test Results   |
|--|---------|--|
| Copper Anti-Seize & Lubricating Compound |         |  |
| <b>Aquatic</b>                           |         |  |
| <i>Acute</i>                             |         |  |
| Crustacea                                | LC50    | Calanoid copepod ( <i>Acartia tonsa</i> ) > 1000 mg/l, 48 hours          |
| Fish                                     | LC50    | Flatfish, flounder ( <i>Scophthalmus maximus</i> ) > 1000 mg/l, 96 hours |
| Other                                    | EC50    | Diatom ( <i>Skeletonema costatum</i> ) > 1000 mg/l, 72 hours             |

| Components  | Species |   | Test Results         |
|---|---------|---|----------------------|
| Copper (CAS 7440-50-8)  |         |   |                      |
| <b>Aquatic</b>  |         |   |                      |
| <i>Acute</i>  |         |   |                      |
| Crustacea   | EC50    | Water flea (Daphnia magna)                          | 0.03 mg/l, 48 hours  |
| Fish  | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 0.052 mg/l, 96 hours |
| Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) |         |   |                      |
| <b>Aquatic</b>  |         |   |                      |
| Crustacea   | EC50    | Water flea (Daphnia magna)                          | 1000 mg/l, 48 hours  |
| Fish  | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 5000 mg/l, 96 hours  |
| Talc (not containing asbestos fibers) (CAS 14807-96-6)                  |         |   |                      |
| <b>Aquatic</b>  |         |   |                      |
| <i>Acute</i>  |         |   |                      |
| Fish  | LC50    | Zebra danio (Danio rerio)                           | > 100 g/l, 96 hours  |

\* Estimates for product may be based on additional component data not shown.

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.  |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

### 13. Disposal considerations

|  |   |
|--|---|
| <b>Disposal of waste from residues / unused products</b> | This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. |
| <b>Hazardous waste code</b>                              | Not regulated.  |
| <b>Contaminated packaging</b>                            | 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

|             |                                   |
|-------------|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b> | Not regulated as dangerous goods. |
| <b>IMDG</b> | Not regulated as dangerous goods. |

### 15. Regulatory information

|   |  |          |
|---|--|----------|
| <b>US federal regulations</b>   | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |          |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>            | Not regulated.   |          |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>       | Not listed.  |          |
| <b>SARA 304 Emergency release notification</b>                                  | Not regulated.   |          |
| <b>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance</b> | Copper (CAS 7440-50-8)   |          |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                           | Copper (CAS 7440-50-8)   | Listed.  |
| <b>CERCLA Hazardous Substances: Reportable quantity</b>                         | Copper (CAS 7440-50-8)   | 5000 LBS |

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312 Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**US state regulations**

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Copper (CAS 7440-50-8)  
Talc (not containing asbestos fibers) (CAS 14807-96-6)  
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)  
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Calcium carbonate (CAS 1317-65-3)  
Talc (not containing asbestos fibers) (CAS 14807-96-6)  
Copper (CAS 7440-50-8)  
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)  
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

**US. Massachusetts RTK - Substance List**

Calcium carbonate (CAS 1317-65-3)  
Copper (CAS 7440-50-8)  
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)  
Talc (not containing asbestos fibers) (CAS 14807-96-6)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Copper (CAS 7440-50-8)  
Calcium carbonate (CAS 1317-65-3)  
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)  
Talc (not containing asbestos fibers) (CAS 14807-96-6)

**US. Rhode Island RTK**

Copper (CAS 7440-50-8)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**Volatile organic compounds (VOC) regulations**

**EPA**

**VOC content (40 CFR 51.100(s))** 0 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

**State**

**Consumer products** This product is regulated as an Anti-seize Lubricant (non-aerosol). This product is compliant for use in all 50 states.

**VOC content (CA)** 0 %

**VOC content (OTC)** 0 %

## International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | No                     |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | Yes                    |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*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

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|                            |  |
|----------------------------|--|
| <b>Issue date</b>          | 05-21-2015   |
| <b>Prepared by</b>         | Allison Cho  |
| <b>Version #</b>           | 01   |
| <b>Further information</b> | Not available.   |
| <b>HMIS® ratings</b>       | Health: 1<br>Flammability: 1<br>Physical hazard: 0<br>Personal protection: B |
| <b>NFPA ratings</b>        | Health: 1<br>Flammability: 1<br>Instability: 0                               |

### NFPA ratings



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