

**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

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**SECTION 1. IDENTIFICATION**

Product name : METALSTAR HEATSET 05-4876 GOLD  
Product code : 045727A30

**Manufacturer or supplier's details**

Company name of supplier : ECKART America Corporation  
Address : 830 East Erie Street  
Painesville OH 44077  
Telephone : 866-458-7837  
(440) 954-7600  
Telefax : (440) 354-6224  
e-mail adresse : info.eckart.america.oh@altana.com  
Emergency telephone : **CHEMTREC:** 800-424-9300  
**CHEMTREC:** 1-703-527-3387 (International)

**NCEC:**

(contract no. ECKART29003-NCEC)  
US: +1 866 928 0789 (Toll free)  
Canada: +1 800 579 7421 (Toll Free)  
Mexico: +52 55 5004 8763

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute toxicity (Oral) : Category 4  
Eye irritation : Category 2A

**GHS label elements**

Hazard pictograms :



Signal Word : Warning  
Hazard Statements : H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this

## METALSTAR HEATSET 05-4876 GOLD

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

P280 product.  
Wear eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

Copper

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

| Chemical name                                | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| Copper                                       | 7440-50-8  | >= 30 - < 50          |
| Linseed oil                                  | 8001-26-1  | >= 10 - < 20          |
| Distillates (petroleum), straight-run middle | 64741-44-2 | >= 5 - < 10           |
| Distillates (petroleum), hydrotreated light  | 64742-47-8 | >= 1 - < 5            |
| Zinc   | 7440-66-6  | >= 1 - < 5            |
| Castor oil, oxidized                         | 68187-84-8 | >= 1 - < 5            |

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

|                |  |
|----------------|--|
| General advice | : Take the victim into fresh air.<br>Move out of dangerous area.<br>Show this material safety data sheet to the doctor in attendance.<br>Symptoms of poisoning may appear several hours later. |
| If inhaled     | : If unconscious, place in recovery position and seek medical advice.  |

**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
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| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

|   |   |  |
|---|---|--|
| In case of skin contact                                     | : | If symptoms persist, call a physician.<br>Wash off immediately with soap and plenty of water.  |
| In case of eye contact                                      | : | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.   |
| If swallowed  | : | Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : | Harmful if swallowed.<br>Causes serious eye irritation.  |

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**SECTION 5. FIRE-FIGHTING MEASURES**

|  |   |   |
|--|---|---|
| Suitable extinguishing media                   | : | Special powder against metal fire<br>Dry sand<br>ABC powder   |
| Unsuitable extinguishing media                 | : | Water<br>High volume water jet<br>Carbon dioxide (CO <sub>2</sub> )   |
| Specific hazards during fire fighting          | : | Do not allow run-off from fire fighting to enter drains or water courses.   |
| Further information                            | : | Standard procedure for chemical fires.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary.  |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.<br>Ensure adequate ventilation.<br>Use personal protective equipment.<br>Ensure adequate ventilation.  |
| General advice  | : | The product should not be allowed to enter drains, water courses or the soil.<br>Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform |

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**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

- Environmental precautions : respective authorities.  
The product should not be allowed to enter drains, water courses or the soil.
- Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.
- Pick up and transfer to properly labeled containers.  
Do not flush with water.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.  
No smoking.
- Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep away from sources of ignition - No smoking.  
Do not store near combustible materials.  
Keep containers tightly closed in a cool, well-ventilated place.  
To maintain product quality, do not store in heat or direct sunlight.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## METALSTAR HEATSET 05-4876 GOLD

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

Electrical installations / working materials must comply with the technological safety standards.

Technical measures/Precautions : Protect from humidity and water.

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

| Components  | CAS-No.   | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|-------------|-----------|----------------------------------|---|-----------|
| Copper      | 7440-50-8 | TWA                              | 1 mg/m3<br>(Copper)                               | ACGIH     |
|             |           | TWA (dust and mists)             | 1 mg/m3<br>(Copper)                               | NIOSH REL |
|             |           | TWA                              | 1 mg/m3<br>(Copper)                               | OSHA P0   |
|             |           | TWA                              | 0.2 mg/m3<br>(Copper)                             | ACGIH     |
|             |           | TWA                              | 0.1 mg/m3<br>(Copper)                             | OSHA P0   |
|             |           | TWA (Dust and mist)              | 1 mg/m3<br>(Copper)                               | ACGIH     |
|             |           | TWA (Fumes)                      | 0.2 mg/m3<br>(Copper)                             | ACGIH     |
|             |           | TWA (Dust)                       | 1 mg/m3<br>(Copper)                               | NIOSH REL |
|             |           | TWA (Mist)                       | 1 mg/m3<br>(Copper)                               | NIOSH REL |
|             |           | TWA (dusts and mists)            | 1 mg/m3<br>(Copper)                               | OSHA Z-1  |
|             |           | TWA (Fumes)                      | 0.1 mg/m3<br>(Copper)                             | OSHA Z-1  |
|             |           | TWA (Fumes)                      | 0.1 mg/m3<br>(Copper)                             | OSHA P0   |
|             |           | TWA (Dust and mist)              | 1 mg/m3<br>(Copper)                               | OSHA P0   |
| Linseed oil | 8001-26-1 | TWA (mist -                      | 10 mg/m3  | NIOSH REL |

## METALSTAR HEATSET 05-4876 GOLD

Version 4.1      Revision Date: 03/25/2025      SDS Number: 102000028784      Date of last issue: 06/19/2024  
 Date of first issue: 03/26/2018

|   |            |                           |  |           |
|---|------------|---------------------------|--|-----------|
|   |            | total)                    |  |           |
|   |            | TWA (mist - respirable)   | 5 mg/m3                                | NIOSH REL |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | TWA                       | 500 ppm<br>2,000 mg/m3                 | OSHA Z-1  |
|   |            | TWA                       | 200 mg/m3<br>(total hydrocarbon vapor) | ACGIH     |
|   |            | TWA                       | 400 ppm<br>1,600 mg/m3                 | OSHA P0   |
|   |            | TWA (Mist)                | 5 mg/m3                                | OSHA Z-1  |
|   |            | TWA (Mist)                | 5 mg/m3                                | OSHA P0   |
|   |            | TWA (Mist)                | 5 mg/m3                                | NIOSH REL |
|   |            | ST (Mist)                 | 10 mg/m3                               | NIOSH REL |
| Zinc  | 7440-66-6  | TWA (total dust)          | 50 Million particles per cubic foot    | OSHA Z-3  |
|   |            | TWA (total dust)          | 15 mg/m3                               | OSHA Z-3  |
|   |            | TWA (respirable fraction) | 5 mg/m3                                | OSHA Z-3  |
|   |            | TWA (respirable fraction) | 15 Million particles per cubic foot    | OSHA Z-3  |
| Castor oil, oxidized                        | 68187-84-8 | TWA (mist - total)        | 10 mg/m3                               | NIOSH REL |
|   |            | TWA (mist - respirable)   | 5 mg/m3                                | NIOSH REL |

**Personal protective equipment**

Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
 Equipment should conform to EN 14387

Hand protection  
 Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the

## METALSTAR HEATSET 05-4876 GOLD

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

|                          |   |  |
|--------------------------|---|--|
| Eye protection           | : | Safety glasses<br>Wear face-shield and protective suit for abnormal processing problems.   |
| Skin and body protection | : | Choose body protection according to the amount and concentration of the dangerous substance at the work place.   |
| Hygiene measures         | : | General industrial hygiene practice.<br>When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday. |

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |   |   |
|--|---|---|
| Appearance                                       | : | liquid                                      |
| Color  | : | gold  |
| Odor   | : | characteristic                              |
| Odor Threshold                                   | : | No data available                           |
| pH   | : | substance/mixture is non-soluble (in water) |
| Melting point/freezing point                     | : | No data available                           |
| Boiling point/boiling range                      | : | > 100 °C                                    |
| Flash point                                      | : | > 100 °C                                    |
| Evaporation rate                                 | : | No data available                           |
| Flammability (solid, gas)                        | : | No data available                           |
| Upper explosion limit / Upper flammability limit | : | No data available                           |
| Lower explosion limit / Lower flammability limit | : | No data available                           |
| Vapor pressure                                   | : | No data available                           |
| Relative density                                 | : | No data available                           |
| Density  | : | 1.4 g/cm3                                   |
| Solubility(ies)                                  | : |   |
| Water solubility                                 | : | insoluble                                   |
| Partition coefficient: n-octanol/water           | : | No data available                           |
| Autoignition temperature                         | : | No data available                           |
| Decomposition temperature                        | : | No data available                           |
| Viscosity  | : |   |

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|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
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| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

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Viscosity, kinematic : > 21 mm<sup>2</sup>/s (40 °C)

Total Volatile organic compounds (VOC) content : 10.00 - 20.00 %

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Stable under recommended storage conditions.  
No decomposition if stored and applied as directed.

Conditions to avoid : Do not allow evaporation to dryness.  
No data available

**Hazardous decomposition products**

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Harmful if swallowed.

**Components:****Copper:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**Zinc:**

Acute oral toxicity : (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Copper:**

Remarks: May cause skin irritation in susceptible persons.

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**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:****Copper:**

Result: Eye irritation

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

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

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

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

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

**Components:****Distillates (petroleum), straight-run middle:**

May be fatal if swallowed and enters airways.

**Distillates (petroleum), hydrotreated light:**

May be fatal if swallowed and enters airways.

**Further information****Components:****Copper:**

Remarks: No data available

**Zinc:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Copper:**

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Distillates (petroleum), straight-run middle:****Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

**Zinc:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**Components:****Copper:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

**Zinc:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
In accordance with local and national regulations.

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**SECTION 14. TRANSPORT INFORMATION****Domestic regulation**

**49 CFR**

**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

Not regulated as a dangerous good

**International Regulations****IATA-DGR**

|  |  |
|--|--|
| UN/ID No.                                | : UN 3082  |
| Proper shipping name                     | : Environmentally hazardous substance, liquid, n.o.s.<br>(Copper metal powder) |
| Class                                    | : 9  |
| Packing group                            | : III  |
| Labels                                   | : Miscellaneous Dangerous Goods  |
| Packing instruction (cargo aircraft)     | : 964  |
| Packing instruction (passenger aircraft) | : 964  |

**IMDG-Code**

|                      |   |
|----------------------|---|
| UN number            | : UN 3082   |
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Copper metal powder) |
| Class                | : 9   |
| Packing group        | : III   |
| Labels               | : 9   |
| EmS Code             | : F-A, S-F  |
| Marine pollutant     | : yes   |

Remarks : For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

| Components | CAS-No.   | Component RQ (lbs) |
|------------|-----------|--------------------|
| Copper     | 7440-50-8 | 5000               |
| Zinc       | 7440-66-6 | 1000               |

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**METALSTAR HEATSET 05-4876 GOLD**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation

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

|        |           |                |
|--------|-----------|----------------|
| Copper | 7440-50-8 | >= 30 - < 50 % |
| Zinc   | 7440-66-6 | >= 1 - < 5 %   |

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

|   |            |               |
|---|------------|---------------|
| White mineral oil (petroleum)               | 8042-47-5  | >= 5 - < 10 % |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | >= 1 - < 5 %  |

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

|        |           |           |
|--------|-----------|-----------|
| Copper | 7440-50-8 | 31.2375 % |
| Zinc   | 7440-66-6 | 3.15 %    |

This product contains the following priority pollutants related to the U.S. Clean Water Act:

|        |           |           |
|--------|-----------|-----------|
| Copper | 7440-50-8 | 31.2375 % |
| Zinc   | 7440-66-6 | 3.15 %    |

**US State Regulations****Massachusetts Right To Know**

|        |           |
|--------|-----------|
| Copper | 7440-50-8 |
|--------|-----------|

## METALSTAR HEATSET 05-4876 GOLD

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

---

|   |            |
|---|------------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 |
| Zinc  | 7440-66-6  |

**Pennsylvania Right To Know**

|  |              |
|--|--------------|
| Copper   | 7440-50-8    |
| Distillates (petroleum), steam-cracked, polymd.  | 68131-77-1   |
| Linseed oil  | 8001-26-1    |
| Distillates (petroleum), straight-run middle   | 64741-44-2   |
| Kein gefährlicher Stoff oder gefährliches Gemisch gemäß dem<br>Global Harmonisierten System (GHS). | Not Assigned |
| Distillates (petroleum), hydrotreated light  | 64742-47-8   |
| Zinc   | 7440-66-6    |
| Soybean oil  | 8001-22-7    |
| Castor oil, oxidized   | 68187-84-8   |
| Aluminum   | 7429-90-5    |

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



WARNING: This product can expose you to chemicals including Distillates (petroleum), hydrotreated light, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

|   |            |
|---|------------|
| Copper                                      | 7440-50-8  |
| Distillates (petroleum), hydrotreated light | 64742-47-8 |
| Zinc  | 7440-66-6  |

**California Permissible Exposure Limits for Chemical Contaminants**

|        |           |
|--------|-----------|
| Copper | 7440-50-8 |
|--------|-----------|

## METALSTAR HEATSET 05-4876 GOLD

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
| 4.1     | 03/25/2025     | 102000028784 | Date of first issue: 03/26/2018 |

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|   |            |
|---|------------|
| Linseed oil                                 | 8001-26-1  |
| Distillates (petroleum), hydrotreated light | 64742-47-8 |
| Zinc  | 7440-66-6  |

**The ingredients of this product are reported in the following inventories:**

|      |  |
|------|--|
| DSL  | : All components of this product are on the Canadian DSL |
| TSCA | : All substances listed as active on the TSCA inventory  |

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

|                 |  |
|-----------------|--|
| ACGIH           | : USA. ACGIH Threshold Limit Values (TLV)  |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits   |
| OSHA P0         | : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)                           |
| OSHA Z-1        | : USA. Occupational Exposure Limits (OSHA) - Table Z-1<br>Limits for Air Contaminants          |
| OSHA Z-3        | : USA. Occupational Exposure Limits (OSHA) - Table Z-3<br>Mineral Dusts                        |
| ACGIH / TWA     | : 8-hour, time-weighted average  |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour<br>workday during a 40-hour workweek |
| NIOSH REL / ST  | : STEL - 15-minute TWA exposure that should not be exceeded<br>at any time during a workday    |
| OSHA P0 / TWA   | : 8-hour time weighted average   |
| OSHA Z-1 / TWA  | : 8-hour time weighted average   |
| OSHA Z-3 / TWA  | : 8-hour time weighted average   |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP

## METALSTAR HEATSET 05-4876 GOLD

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 06/19/2024  |
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- Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 03/25/2025

The information provided in this Material 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.

US / Z8