

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/04/2023

Reviewed on 01/04/2023

## 1 Identification

- **Product identifier**
- **Trade name:** WENOL METAL POLISH
- **Article number:** 71832
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3

Substances and mixtures which, in contact with water, emit flammable gases 1

H226 Flammable liquid and vapor.

H260 In contact with water releases flammable gases, which may ignite spontaneously.



GHS08 Health hazard

Germ Cell Mutagenicity 1B

Carcinogenicity 1B

Specific Target Organ Toxicity - Repeated Exposure 1

Aspiration Hazard 1

H340 May cause genetic defects.

H350 May cause cancer.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.



GHS05 Corrosion

Skin Corrosion 1B

Eye Damage 1

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS05



GHS08

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· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*Naphtha (petroleum), hydrodesulfurized heavy ammonia, anhydrous*

*Kerosine (petroleum)*

*coconut oil diethanolamine condensate*

· **Hazard statements**

*Flammable liquid and vapor.*

*In contact with water releases flammable gases, which may ignite spontaneously.*

*Causes severe skin burns and eye damage.*

*May cause genetic defects.*

*May cause cancer.*

*Causes damage to the central nervous system through prolonged or repeated exposure.*

*May be fatal if swallowed and enters airways.*

· **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

*Do not allow contact with water.*

*Handle under inert gas. Protect from moisture.*

*Keep container tightly closed.*

*Ground/bond container and receiving equipment.*

*Use explosion-proof electrical/ventilating/lighting/equipment.*

*Use only non-sparking tools.*

*Take precautionary measures against static discharge.*

*Do not breathe dusts or mists.*

*Wash thoroughly after handling.*

*Do not eat, drink or smoke when using this product.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If swallowed: Immediately call a poison center/doctor.*

*Specific treatment (see on this label).*

*If swallowed: Rinse mouth. Do NOT induce vomiting.*

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Get medical advice/attention if you feel unwell.*

*Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.*

*Wash contaminated clothing before reuse.*

*In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder to extinguish.*

*Store in a dry place. Store in a closed container.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



*Health = 3*

*Fire = 2*

*Reactivity = 2*

*The substance demonstrates unusual reactivity with water.*

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· **HMIS-ratings (scale 0 - 4)**

|            |    |                |
|------------|----|----------------|
| HEALTH     | *3 | Health = *3    |
| FIRE       | 2  | Fire = 2       |
| REACTIVITY | 2  | Reactivity = 2 |

· **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:**

|            |  |           |
|------------|--|-----------|
| 8008-20-6  | Kerosine (petroleum)                         | >10-≤25%  |
| 64742-82-1 | Naphtha (petroleum), hydrodesulfurized heavy | >10-≤25%  |
| 68603-42-9 | coconut oil diethanolamine condensate        | >10-≤25%  |
| 7664-41-7  | ammonia, anhydrous                           | >2.5-≤10% |

### 4 First-aid measures

· **Description of first aid measures**· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.· **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.· **Information for doctor:**· **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.

### 5 Fire-fighting measures

· **Extinguishing media**· **Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.· **For safety reasons unsuitable extinguishing agents:** Water· **Special hazards arising from the substance or mixture** No further relevant information available.· **Advice for firefighters**· **Protective equipment:** No special measures required.

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## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

|           |                    |                      |
|-----------|--------------------|----------------------|
| 1344-28-1 | aluminium oxide    | 15 mg/m <sup>3</sup> |
| 7664-41-7 | ammonia, anhydrous | 30 ppm               |

- **PAC-2:**

|           |                    |                       |
|-----------|--------------------|-----------------------|
| 1344-28-1 | aluminium oxide    | 170 mg/m <sup>3</sup> |
| 7664-41-7 | ammonia, anhydrous | 160 ppm               |

- **PAC-3:**

|           |                    |                       |
|-----------|--------------------|-----------------------|
| 1344-28-1 | aluminium oxide    | 990 mg/m <sup>3</sup> |
| 7664-41-7 | ammonia, anhydrous | 1,100 ppm             |

## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Keep respiratory protective device available.

- **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:** Not required.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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· **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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

| 8008-20-6 Kerosine (petroleum) |   |
|--------------------------------|---|
| REL                            | Long-term value: 100 mg/m <sup>3</sup><br>Kerosine only   |
| TLV                            | Long-term value: 200 mg/m <sup>3</sup><br>as total hydrocarbon vapor; Skin; A3                    |
| 7664-41-7 ammonia, anhydrous   |   |
| PEL                            | Long-term value: 35 mg/m <sup>3</sup> , 50 ppm  |
| REL                            | Short-term value: 27 mg/m <sup>3</sup> , 35 ppm<br>Long-term value: 18 mg/m <sup>3</sup> , 25 ppm |
| TLV                            | Short-term value: 35 ppm<br>Long-term value: 25 ppm   |

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

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **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.

· **Protection of hands:**

Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

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## · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

|                   |                 |
|-------------------|-----------------|
| · Form:           | Pasty           |
| · Color:          | Pink            |
| · Odor:           | Ammonia-like    |
| · Odor threshold: | Not determined. |

· pH-value at 20 °C (68 °F): 11.5

## · Change in condition

|                                |                   |
|--------------------------------|-------------------|
| · Melting point/Melting range: | Undetermined.     |
| · Boiling point/Boiling range: | 221 °C (429.8 °F) |

· Flash point: &gt;50 °C (&gt;122 °F)

· Flammability (solid, gaseous): Flammable.  
Contact with water liberates extremely flammable gases.

· Ignition temperature: 210 °C (410 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Spontaneously flammable in air.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

## · Explosion limits:

|          |           |
|----------|-----------|
| · Lower: | 0.5 Vol % |
| · Upper: | 6.5 Vol % |

· Vapor pressure at 20 °C (68 °F): 2 hPa (1.5 mm Hg)

· Density at 20 °C (68 °F): 1.15 g/cm<sup>3</sup> (9.59675 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

## · Solubility in / Miscibility with

· Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

## · Viscosity:

|              |                 |
|--------------|-----------------|
| · Dynamic:   | Not determined. |
| · Kinematic: | Not determined. |

## · Solvent content:

|                |                                 |
|----------------|---------------------------------|
| · VOC content: | 0.00 %<br>0.0 g/l / 0.00 lb/gal |
|----------------|---------------------------------|

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|                        |        |
|------------------------|--------|
| <b>Solids content:</b> | 35.0 % |
|------------------------|--------|

|                          |  |
|--------------------------|--|
| <b>Other information</b> | No further relevant information available. |
|--------------------------|--|

## 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** Contact with water releases flammable gases.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**  
Strong caustic effect.  
Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Corrosive  
Irritant  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.  
Carcinogenic.  
The product can cause inheritable damage.
- **Carcinogenic categories**

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

|            |                                       |    |
|------------|---------------------------------------|----|
| 8008-20-6  | Kerosine (petroleum)                  | 2B |
| 68603-42-9 | coconut oil diethanolamine condensate | 2B |

- **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:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.

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- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 2 (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
 Danger to drinking water if even small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms  
 Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |   |                        |
|---|------------------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>   | <i>Void</i>            |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>                                 | <i>Void</i>            |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT, ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul> | <i>Void</i>            |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>   | <i>Void</i>            |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>   | <i>Not applicable.</i> |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>   | <i>Not applicable.</i> |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b></li> </ul>                       | <i>Not applicable.</i> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | <i>Void</i>            |

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## 15 Regulatory information

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

· **Sara**

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

|           |                    |
|-----------|--------------------|
| 7664-41-7 | ammonia, anhydrous |
|-----------|--------------------|

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

|           |                 |
|-----------|-----------------|
| 1344-28-1 | aluminium oxide |
|-----------|-----------------|

|           |                    |
|-----------|--------------------|
| 7664-41-7 | ammonia, anhydrous |
|-----------|--------------------|

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

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

|            |                                       |
|------------|---------------------------------------|
| 68603-42-9 | coconut oil diethanolamine condensate |
|------------|---------------------------------------|

· **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)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

|           |                 |  |
|-----------|-----------------|--|
| 1344-28-1 | aluminium oxide |  |
|-----------|-----------------|--|

A4

|           |                      |  |
|-----------|----------------------|--|
| 8008-20-6 | Kerosine (petroleum) |  |
|-----------|----------------------|--|

A3

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

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02

GHS05

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Naphtha (petroleum), hydrodesulfurized heavy  
ammonia, anhydrous

Kerosine (petroleum)

coconut oil diethanolamine condensate

· **Hazard statements**

Flammable liquid and vapor.

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*In contact with water releases flammable gases, which may ignite spontaneously.  
Causes severe skin burns and eye damage.  
May cause genetic defects.  
May cause cancer.  
Causes damage to the central nervous system through prolonged or repeated exposure.  
May be fatal if swallowed and enters airways.*

· **Precautionary statements**

*Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not allow contact with water.  
Handle under inert gas. Protect from moisture.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dusts or mists.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Immediately call a poison center/doctor.  
Specific treatment (see on this label).  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.  
Wash contaminated clothing before reuse.  
In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder to extinguish.  
Store in a dry place. Store in a closed container.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.  
Exceptions can be made by the authorities in certain cases.*

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.*

· **Contact:**

· **Date of preparation / last revision** 01/04/2023 / -

· **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*

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*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)**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******Flammable Liquids 3: Flammable liquids – Category 3******Substances and mixtures which, in contact with water, emit flammable gases 1: Substances and mixtures which in contact with water emit flammable gases – Category 1******Skin Corrosion 1B: Skin corrosion/irritation – Category 1B******Eye Damage 1: Serious eye damage/eye irritation – Category 1******Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B******Carcinogenicity 1B: Carcinogenicity – Category 1B******Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1******Aspiration Hazard 1: Aspiration hazard – Category 1***

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