SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier
  · Trade name: 01 001820 AUTOSOL® Aluminium Polish (Pail 20kg - 5 Gallon Pail)
  · 1.2 Relevant identified uses of the substance or mixture and uses advised against
  · Sector of Use
    SU21 Consumer uses: Private households / general public / consumers
    SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
  · Application of the substance / the mixture Maintenance product

· 1.3 Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Autosol, LLC
    P.O. Box 340358
    Austin, TX 78734
    Tel.: 1-512-804-9337
    www.autosol.com
  · Further information obtainable from:
    msds@autosol.com

· 1.4 Emergency telephone number:
  1-512-804-9337 or 1-800-314-5545 Toll Free US and Canada

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture
  · Classification according to Regulation (EC) No 1272/2008
    GHS07
    Skin Irrit. 2   H315  Causes skin irritation.
    Eye Irrit. 2   H319  Causes serious eye irritation.
    Aquatic Chronic 3  H412  Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  · Xi; Irritant
    R38: Irritating to skin.
    R52/53-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

· Information concerning particular hazards for human and environment:
  The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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Safety data sheet
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Trade name: 01 001820 AUTOSOL® Aluminium Polish

- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.

- Hazard pictograms
  GHS07

- Signal word Warning
- Hazard statements
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements
  P102 Keep out of reach of children.
  P280 Wear protective gloves / eye protection / face protection.
  P273 Avoid release to the environment.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P332+P313 If skin irritation occurs: Get medical advice/attention.
  P337+P313 If eye irritation persists: Get medical advice/attention.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information: Keep out of reach of children.

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

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 64742-49-0</th>
<th>Naphtha (petroleum), hydrotreated light</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 265-151-9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R67</td>
</tr>
<tr>
<td></td>
<td>Flam.: Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H302; STOT SE 3, H336</td>
</tr>
<tr>
<td></td>
<td>10-25%</td>
</tr>
</tbody>
</table>

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| CAS: 8008-20-6 | Kerosine (petroleum) | Xn R65 |
| EINECS: 232-366-4 | | Asp. Tox. 1, H304; Aquatic Chronic 3, H412 |
| | | 10-25% |
| CAS: 100-37-8 | 2-diethylaminoethanol | C R34; Xn R20/21/22 |
| EINECS: 202-845-2 | | R10 |
| | | Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Acute Tox. 4, H302; STOT SE 3, H335 |
| CAS: 64-17-5 | ethanol | F R11 |
| EINECS: 200-578-6 | | Flam. Liq. 2, H225 |
| | | 1-10% |

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
- 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: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
- Protective equipment: No special measures required.
- Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Not required.

6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

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6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about fire - and explosion protection: No special measures required.

7.2 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: None.
Storage class: 10

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

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethanol</td>
<td>WEL Long-term value: 1920 mg/m³, 1000 ppm</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory protection:
Filter A/P2
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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**
Recommended thickness of the material: ≥ 0.5 mm
Natural rubber, NR
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**
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
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

---

**SECTION 9: Physical and chemical properties**

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

**General Information**

**Appearance:**
- **Form:** Pasty
- **Colour:** Grey

**Odour:** Characteristic
**Odour threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 100 °C

**Flash point:** > 100 °C

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:**
- **Decomposition temperature:** Not determined.

**Self-igniting:**
Product is not selfigniting.

**Danger of explosion:**
Product does not present an explosion hazard.

**Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.

**Vapour pressure:** Not determined.

**Density at 20 °C:** 1.048 g/cm³
**Relative density** Not determined.
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· Vapour density
· Evaporation rate
Not determined.

· Solubility in / Miscibility with water:
Not miscible or difficult to mix.

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

· Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

· 9.2 Other information
No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity
· 10.2 Chemical stability
· Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
· 10.3 Possibility of hazardous reactions
  No dangerous reactions known.
· 10.4 Conditions to avoid
  No further relevant information available.
· 10.5 Incompatible materials
  No further relevant information available.
· 10.6 Hazardous decomposition products
  No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects
· Acute toxicity:
  · LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50/DL50</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>5000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>2800 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50 (4 h)</td>
<td>&gt;23.3 mg/l (rat)</td>
</tr>
<tr>
<td>Kerosine (petroleum)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>&gt;5000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>&gt;3000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>2-diethylaminoethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>1300 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50 (4 h)</td>
<td>5 mg/l (mouse)</td>
</tr>
<tr>
<td>ethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>10470 mg/kg (rat) (OECD 401 (Acute Oral Toxicity))</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>&gt;2000 mg/kg (rabbit) (OECD 402 (Acute Dermal Toxicity))</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50 (4 h)</td>
<td>117-125 mg/l (rat) (OECD 403 (Acute Inhalation Toxicity))</td>
</tr>
</tbody>
</table>

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· Primary irritant effect:
  · on the skin: Irritant to skin and mucous membranes.
  · on the eye: Irritating effect.
  · Sensitisation: No sensitising effects known.

· Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, disziness, etc.

SECTION 12: Ecological information

· 12.1 Toxicity

  · Aquatic toxicity:
    64-17-5 ethanol
    LC50 (48 h) 12340 mg/l (daphnia)
    LC50 (96 h) 13000 mg/l (fish)

· 12.2 Persistence and degradability

  64-17-5 ethanol
  BCF 3.2 mg/l (Bioconcentration factor)
  log POW -0.32 (log POW)

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· Ecotoxicological effects:
  · Remark: Harmful to fish

· Additional ecologival information:

· General notes:
  Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Danger to drinking water if even small quantities leak into the ground.
  Harmful to aquatic organisms

· 12.5 Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA
    Void

- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA
    Void

- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA
    Class
    Void

- 14.4 Packing group
  - ADR, IMDG, IATA
    Void

- 14.5 Environmental hazards:
  - Marine pollutant:
    No

- 14.6 Special precautions for user
  Not applicable.

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  Not applicable.

- UN "Model Regulation":
  -

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  No further relevant information available.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

- Relevant phrases
  H225 Highly flammable liquid and vapour.
  H226 Flammable liquid and vapour.
  H302 Harmful if swallowed.
  H304 May be fatal if swallowed and enters airways.
  H311 Toxic in contact with skin.
  H314 Causes severe skin burns and eye damage.
  H311 Toxic if inhaled.
  H335 May cause respiratory irritation.
  H336 May cause drowsiness or dizziness.
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H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
R10 Flammable.
R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS:
Autosol, LLC
P.O. Box 340358
Austin, TX 78734

Contact: msds@autosol.com

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3