# SAFETY DATA SHEET
## Gold (powder and pieces)


## 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Gold (powder and pieces)</td>
</tr>
<tr>
<td><strong>Chemical name</strong></td>
<td>Gold</td>
</tr>
<tr>
<td><strong>Internal identification</strong></td>
<td>Replaces M-1000-130, M-1000-131</td>
</tr>
<tr>
<td><strong>CAS number</strong></td>
<td>7440-57-5</td>
</tr>
</tbody>
</table>

### Application
Exterior surface coating.

### Uses advised against
No specific uses advised against are identified.

### Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Kurt J Lesker Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Kurt J Lesker Company</td>
</tr>
<tr>
<td></td>
<td>1925 Route 51</td>
</tr>
<tr>
<td></td>
<td>Jefferson Hills, PA 15025</td>
</tr>
<tr>
<td></td>
<td>+1 412-387-9200</td>
</tr>
</tbody>
</table>

Kurt J Lesker Company LTD
United Kingdom
15-16 Burgess Road
Hastings, East Sussex, TN35 4NR
England
Customer Service: +44 (0) 1424 458100
msds@lesker.com

### Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency telephone</th>
<th>North America [USA, Canada, Mexico]: 1-866-519-4752</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mainland China: (+86) 4001 2001 74</td>
</tr>
<tr>
<td></td>
<td>Europe: ([int'l call prefix]-)1-760-476-3961</td>
</tr>
<tr>
<td></td>
<td>Asia Pacific: ([int'l call prefix]-)1-760-476-3960</td>
</tr>
<tr>
<td></td>
<td>Middle East &amp; Africa: ([int'l call prefix]-)1-760-476-3959</td>
</tr>
</tbody>
</table>

Access Code - 333594

## 2. Hazard(s) identification

### Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Not Classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>
Gold (powder and pieces)

**Label elements**

**Hazard statements**
NC Not Classified

**Other hazards**

This product does not contain any substances classified as PBT or vPvB. Based on available knowledge of this material, it has been determined to be non-hazardous and will not pose a risk to persons or the environment in its provided form. However, any cutting, welding, melting, grinding, or use for deposition will produce dust, fume, or particulates containing component elements of this material. Exposure to these components may present significant health hazards. Note: Fine particulate may be a combustible dust which, when dispersed in air, may present an explosion hazard.

### 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gold (powder and pieces)</strong></td>
</tr>
<tr>
<td>CAS number: 7440-57-5</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
</tr>
<tr>
<td>Not Classified</td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

<table>
<thead>
<tr>
<th>Description of first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General information</strong></td>
</tr>
<tr>
<td>If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
</tr>
<tr>
<td>No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
</tr>
<tr>
<td>No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.</td>
</tr>
<tr>
<td><strong>Skin Contact</strong></td>
</tr>
<tr>
<td>No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
</tr>
<tr>
<td>Rinse with water. Get medical attention if any discomfort continues.</td>
</tr>
<tr>
<td><strong>Protection of first aiders</strong></td>
</tr>
<tr>
<td>Use protective equipment appropriate for surrounding materials.</td>
</tr>
</tbody>
</table>

**Most important symptoms and effects, both acute and delayed**

<table>
<thead>
<tr>
<th>General information</th>
<th>The severity of the symptoms described will vary dependent on the concentration and the length of exposure.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>No specific symptoms known.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No specific symptoms known. May cause discomfort if swallowed.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Prolonged contact may cause dryness of the skin.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>No specific symptoms known. May be slightly irritating to eyes.</td>
</tr>
</tbody>
</table>

**Indication of immediate medical attention and special treatment needed**

<table>
<thead>
<tr>
<th>Notes for the doctor</th>
<th>Treat symptomatically.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specific treatments</strong></td>
<td>No special treatment required.</td>
</tr>
</tbody>
</table>
Gold (powder and pieces)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards
None known.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances:
Harmful gases or vapors.

Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
No specific recommendations. For personal protection, see Section 8.

Environmental precautions

Environmental precautions
Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up
Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

Reference to other sections
For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions
Read and follow manufacturer’s recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions
No specific recommendations.

Storage class
Unspecified storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.
8. Exposure Controls/personal protection

Exposure controls
Appropriate engineering controls
No specific ventilation requirements.

Eye/face protection
No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection
No specific hand protection recommended. Large Spillages: Wear protective gloves.

Hygiene measures
Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection
No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls
Not regarded as dangerous for the environment.

9. Physical and Chemical Properties

Information on basic physical and chemical properties
Appearance
Solid.

Color
Yellow.

Odor
No characteristic odor.

Odor threshold
Not applicable.

pH
Not applicable.

Melting point
1064°C

Initial boiling point and range
Not available.

Flash point
Not applicable.

Evaporation rate
Not applicable.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits
Not applicable.

Vapor pressure
Not available.

Vapor density
Not available.

Relative density
19.30 @ 25°C

Bulk density
Not available.

Solubility(ies)
Insoluble in water.

Partition coefficient
Not applicable.

Auto-ignition temperature
Not applicable.

Decomposition Temperature
Not available.

Viscosity
Not applicable.

Molecular weight
196.967
Gold (powder and pieces)

### 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>There are no known reactivity hazards associated with this product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No potentially hazardous reactions known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>There are no known conditions that are likely to result in a hazardous situation.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>No specific material or group of materials is likely to react with the product to produce a hazardous situation.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.</td>
</tr>
</tbody>
</table>

### 11. Toxicological information

#### Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicological effects</th>
<th>Not regarded as a health hazard under current legislation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - oral</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Notes (oral LD₅₀)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Notes (dermal LD₅₀)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity - inhalation</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Notes (inhalation LC₅₀)</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Animal data</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Genotoxicity - in vitro</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity - IARC</td>
<td>None of the ingredients are listed or exempt.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Reproductive toxicity - fertility</td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity - development</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td></td>
</tr>
</tbody>
</table>
Gold (powder and pieces)

STOT - single exposure  Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure  Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard
Aspiration hazard  Not relevant. Solid.

General information  No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation  No specific symptoms known.

Ingestion  No specific symptoms known. May cause discomfort if swallowed.

Skin Contact  Prolonged contact may cause dryness of the skin.

Eye contact  No specific symptoms known. May be slightly irritating to eyes.

Route of exposure  Ingestion Inhalation Skin and/or eye contact

Target Organs  No specific target organs known.

12. Ecological Information

Ecotoxicity  Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity  Based on available data the classification criteria are not met.

Persistence and degradability
Persistence and degradability  The degradability of the product is not known.

Bioaccumulative potential
Bio-Accumulative Potential  No data available on bioaccumulation.

Partition coefficient  Not applicable.

Mobility in soil
Mobility  No data available.

Other adverse effects
Other adverse effects  None known.

13. Disposal considerations

Waste treatment methods
General information  The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.

Disposal methods  Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

14. Transport information
Gold (powder and pieces)

**General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

**UN Number**

Not applicable.

**UN proper shipping name**

Not applicable.

**Transport hazard class(es)**

No transport warning sign required.

**Packing group**

Not applicable.

**Environmental hazards**

Environmentally Hazardous Substance

No.

**Special precautions for user**

Not applicable.

**Transport in bulk according to**

Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

### 15. Regulatory information

**US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.
Gold (powder and pieces)

US State Regulations
- California Proposition 65 Carcinogens and Reproductive Toxins
  None of the ingredients are listed or exempt.
- California Air Toxics "Hot Spots" (A-I)
  None of the ingredients are listed or exempt.
- California Air Toxics "Hot Spots" (A-II)
  None of the ingredients are listed or exempt.
- California Directors List of Hazardous Substances
  None of the ingredients are listed or exempt.
- Massachusetts "Right To Know" List
  None of the ingredients are listed or exempt.
- Rhode Island "Right To Know" List
  None of the ingredients are listed or exempt.
- Minnesota "Right To Know" List
  None of the ingredients are listed or exempt.
- New Jersey "Right To Know" List
  None of the ingredients are listed or exempt.
- Pennsylvania "Right To Know" List
  None of the ingredients are listed or exempt.

Inventories
- US - TSCA
  None of the ingredients are listed or exempt.
- US - TSCA 12(b) Export Notification
  None of the ingredients are listed or exempt.

16. Other information

Training advice
Only trained personnel should use this material.

Revision date
11/16/2017

Revision
5

Supersedes date
3/15/2017

SDS No.
4541

End of SDS

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.