1. PRODUCT AND COMPANY IDENTIFICATION

Product name: METALURE L-55700
Product code: 056257IA0
Chemical nature: Metalure Aluminium pigment paste

Manufacturer or supplier’s details

Company: 爱卡特殊效果颜料（珠海）有限公司
Address: 珠海市金湾区南水镇浪屿路3号
Telephone: +8607567228600
Emergency telephone number: National Emergency Response Hotline for Chemical Incident (China): 0532-83889090
E-mail address: Riko.Huang@altana.com
Telefax: +8607567228601

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid
Colour: silver
Odour: characteristic
Flammable liquid and vapour.

GHS Classification
Flammable liquids: Category 3

GHS label elements
Hazard pictograms: 
Signal word: Warning
Hazard statements : H226 Flammable liquid and vapour.

Precautionary statements : Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.

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

Physical and chemical hazards
Flammable liquid and vapour.

Health hazards
Not classified based on available information.

Environmental hazards
Not classified based on available information.

Other hazards which do not result in classification
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance name</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name</td>
</tr>
<tr>
<td>CAS-No.</td>
</tr>
<tr>
<td>Concentration (% w/w)</td>
</tr>
<tr>
<td>----------------------</td>
</tr>
<tr>
<td>2-Propanol, 1-methoxy-acetate</td>
</tr>
<tr>
<td>Aluminium powder</td>
</tr>
<tr>
<td>Acetone</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

General advice : Move the victim to fresh air.  
Do not leave the victim unattended.  
Move out of dangerous area.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry sand  
ABC powder  
Foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- Evacuate personnel to safe areas.
- Remove all sources of ignition.
- Evacuate personnel to safe areas.
- Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions:
- 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.
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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).
- Do not flush with water.

7. HANDLING AND STORAGE

Handling
Advice on protection against fire and explosion:
- Do not spray on a naked flame or any incandescent material.
- Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
- Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling:
- Avoid formation of aerosol.
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Take precautionary measures against static discharges.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Open drum carefully as content may be under pressure.
- Dispose of rinse water in accordance with local and national regulations.

Avoidance of contact:
- Acids
- Bases
- Oxidizing agents
Storage


No smoking. 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. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Technical measures/Precautions: Protect from humidity and water.

Materials to avoid: Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium powder</td>
<td>7429-90-5</td>
<td>PC-TWA (Total dust)</td>
<td>3 mg/m3 (Aluminium)</td>
<td>GBZ 2.1-2007</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>PC-TWA</td>
<td>300 mg/m3</td>
<td>GBZ 2.1-2007</td>
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</tbody>
</table>

Personal protective equipment

Respiratory protection: Use suitable breathing protection if workplace concentration requires.
**Eye/face protection**: Goggles
Safety glasses

**Skin and body protection**: Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

**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 break-through time which are provided by the supplier of the 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.

**Hygiene measures**: Wash hands before breaks and at the end of workday.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance**: liquid
- **Propellant**: No data available
- **Colour**: silver
- **Odour**: characteristic
- **Odour Threshold**: No data available
- **pH**: No data available
- **Melting point/freezing point**: No data available
- **Boiling point/boiling range**: 146 °C
- **Flash point**: 46 °C
- **Evaporation rate**: No data available
- **Flammability (solid, gas)**: No data available
- **Flammability (liquids)**: No data available
- **Burning rate**: No data available
- **Auto-flammability**: No data available
- **Burning number**: No data available
- **Upper explosion limit / Upper flammability limit**: No data available
- **Lower explosion limit / Lower flammability limit**: No data available
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:
- Contact with acids and alkalis may release hydrogen.
- Stable under recommended storage conditions.
- Vapours may form explosive mixture with air.

Conditions to avoid:
- Do not allow evaporation to dryness.
- Heat, flames and sparks.

Incompatible materials: AcidsBasesOxidizing agents
11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Components:
Acetone:
Acute oral toxicity : LD50 (Rabbit): 4,700 - 5,800 mg/kg
(Mouse): 3,000 mg/kg
(Rat): 9,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Components:
Acetone:
Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

Serious eye damage/eye irritation
Not classified based on available information.

Components:
Acetone:
Remarks: Severe eye irritation

Respiratory or skin sensitisation
Skin sensitisation
Not classified based on available information.

Respiratory sensitisation
Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

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.

Further information
Product:
Remarks: Solvents may degrease the skin.
12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
Acetone:
Toxicity to daphnia and other aquatic invertebrates: (Daphnia magna (Water flea)): 21,600 mg/l

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects

Product:
Additional ecological information: No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Do not dispose of waste into sewer.
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.
Do not burn, or use a cutting torch on, the empty drum.
In accordance with local and national regulations.

14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
UN/ID No.: UN 1263
Proper shipping name: Paint
Class: 3
Packing group: III
Labels: Flammable Liquids
Packing instruction (cargo): 366
SAFETY DATA SHEET
according to GB/T 16483 and GB/T 17519

METALURE L-55700

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Print Date:</th>
<th>Date of first issue:</th>
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<td>2018/12/21</td>
<td>102000000656</td>
<td>2018/12/24</td>
<td>2015/09/21</td>
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</table>

aircraft)
Packing instruction (passenger aircraft) : 355

**IMDG-Code**

- **UN number**: UN 1263
- **Proper shipping name**: PAINT

<table>
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<tr>
<th>Class</th>
<th>Packing group</th>
<th>Labels</th>
<th>EmS Code</th>
<th>Marine pollutant</th>
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<tr>
<td>3</td>
<td>III</td>
<td>3</td>
<td>F-E, S-E</td>
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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

<table>
<thead>
<tr>
<th>GB 6944/12268</th>
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<th>Class</th>
<th>Packing group</th>
<th>Labels</th>
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<tr>
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<td>UN 1263</td>
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<td>III</td>
<td>3</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

**National regulatory information**

- **Law on the Prevention and Control of Occupational Diseases**: Applicable

**Regulations on Safety Management of Hazardous Chemicals**

- **Catalogue of Hazardous Chemicals**: Listed

**Identification of Major Hazard Installations for Dangerous Chemicals (GB 18218)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Threshold quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>5,000 t</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

**Full text of other abbreviations**

- **AICS** - Australian Inventory of Chemical Substances
- **ANTT** - National Agency for Transport by Land of Brazil
- **ASTM** - American Society for the Testing of Materials
- **bw** - Body weight
- **CMR** - Carcinogen, Mutagen or Reproductive Toxicant
- **CPR** - Controlled Products Regulations
- **DIN** - Standard of the German Institute for Standardisation
- **DSL** - Domestic Substances List (Canada)
- **ECx** - Concentration associated with x% response
- **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** - Good Laboratory Practice
- **IARC** - International...
SAFETY DATA SHEET
according to GB/T 16483 and GB/T 17519

METALURE L-55700

Version 1.7 Revision Date: 2018/12/21 SDS Number: 102000000656 Print Date: 2018/12/24 Date of first issue: 2015/09/21

Disclaimer
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