SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SILVERSHINE P-1000
Product code : 052618IA0

Manufacturer or supplier’s details
Company name of supplier : ECKART GmbH
Address : Guentersthal 4
Hartenstein 91235
Telephone : +4991527770
Telefax : +499152777008
Emergency telephone number : CHEMTREC: 800-424-9300
CHEMTREC: 1-703-527-3387 (International)
GBK Gefahrgut Buero GmbH, Ingelheim, Germany:
From outside US: (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free):1-800-5355-053

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable solids : Category 1
Reproductive toxicity : Category 1B
Chronic aquatic toxicity : Category 3

GHS label elements
Hazard pictograms :

Signal word : Danger
Hazard statements : H228 Flammable solid.
H360 May damage fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

**Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P370 + P378 In case of fire: Use for extinction: Special powder for metal fires.
P370 + P378 In case of fire: Use for extinction: Dry sand.

**Storage:**
P405 Store locked up.

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

Hazardous components which must be listed on the label:
Solvent naphtha (petroleum), light arom.
2-methoxypropyl acetate

Other hazards
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
</tbody>
</table>
SECTION 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

- May damage fertility or the unborn child.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

- Dry sand
- Special powder against metal fire
Unsuitable extinguishing media : Water
Foam
Carbon dioxide (CO2)
ABC powder

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.

Special protective equipment for firefighters : Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Use personal protective equipment.
Avoid dust formation.
Remove all sources of ignition.

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).
Do not flush with water.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Earthing of containers and apparatuses is essential.
Take measures to prevent the build up of electrostatic charge.
Use explosion-proof equipment.

Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling:
- Keep away from heat and sources of ignition.
- Avoid dust formation.
- Ensure adequate ventilation.
- 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.

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

Conditions for safe storage:
- Store in original container.
- Keep containers tightly closed in a cool, well-ventilated place.
- Keep container closed when not in use.
- Keep away from sources of ignition - No smoking.
- No smoking.
- Keep container tightly closed in a dry and well-ventilated place.
- Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid:
- 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.

SECTION 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>Solvent naphtha (petroleum),</td>
<td>64742-95-6</td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>
### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
<td>Acetone</td>
<td>Urine</td>
<td>end of shift</td>
<td>50 mg/l</td>
<td>MX BEI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>50 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

**Components**
- **light arom.**
- **Aluminum**
  - 7429-90-5
  - LMPE-PPT
  - 10 mg/m³
  - MX OEL
  - TWA (Respirable fraction)
    - 1 mg/m³
    - ACGIH
  - TWA (Respirable fraction)
    - 1 mg/m³
    - ACGIH
- **2-Propanone**
  - 67-64-1
  - LMPE-PPT
    - 1,000 ppm
    - 2,400 mg/m³
  - LMPE-CT
    - 1,260 ppm
    - 3,000 mg/m³
  - TWA
    - 500 ppm
    - ACGIH
  - STEL
    - 750 ppm
    - ACGIH
Personal protective equipment

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

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

Remarks : Take note of the information given by the producer concerning permeability and breakthrough times, and of special workplace conditions (mechanical strain, duration of contact). The exact breakthrough 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 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

Skin and body protection : Long sleeved clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pasty solid
Colour : silver
Odour : odourless
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : 146 °C
Flash point : 40 °C
Evaporation rate : No data available
Flammability (solid, gas): No data available
Auto-flammability: Not auto-flammable
Upper explosion limit / Upper flammability limit: No data available
Lower explosion limit / Lower flammability limit: No data available
Vapour pressure: No data available
Relative density: No data available
Density: 1.4 g/cm³
Solubility(ies): No data available
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: Not explosive. Vapours may form explosive mixture with air.

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: Reacts with alkalis, acids, halogenes and oxidizing agents. Contact with acids and alkalis may release hydrogen. Mixture reacts slowly with water resulting in evolution of hydrogen. Vapours may form explosive mixture with air. Stable under recommended storage conditions.

Conditions to avoid: Do not allow to dry. Heat, flames and sparks.

Incompatible materials: Acids
Bases
Oxidizing agents
Highly halogenated compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.
Components:
Solvent naphtha (petroleum), light arom.:  
Acute oral toxicity: LD50 (Rat): 3,492 mg/kg  
Acute dermal toxicity: LD50 (Rabbit): > 3,160 mg/kg  

Fatty acids, C14-18 and C16-18-unsatd.:  
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity: LC50 (Rat): > 46 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Acute dermal toxicity: LD50 (Rabbit): > 3,160 mg/kg  

Skin corrosion/irritation  
Not classified based on available information.  

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

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  
May damage fertility or the unborn child.  

STOT - single exposure  
Not classified based on available information.  

Components:  
Solvent naphtha (petroleum), light arom.:  
Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.
STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

Components:
Solvent naphtha (petroleum), light arom.: May be fatal if swallowed and enters airways.

Further information
Components:
Fatty acids, C14-18 and C16-18-unsatd.: Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Components:
Solvent naphtha (petroleum), light arom.: 
Ecotoxicology Assessment
Chronic aquatic toxicity : 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:
Fatty acids, C14-18 and C16-18-unsatd.: 
Additional ecological information : No data available
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. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
UN/ID No.: UN 1325
Proper shipping name: Flammable solid, organic, n.o.s.
  (Aluminium pigment paste)
Class: 4.1
Packing group: II
Labels: Flammable Solid
Packing instruction (cargo aircraft): 448
Packing instruction (passenger aircraft): 445

IMDG-Code
UN number: UN 1325
Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S.
  (Aluminium pigment paste)
Class: 4.1
Packing group: II
Labels: 4.1
EmS Code: F-A, S-G
Marine pollutant: no
Remarks: IMDG Code segregation group 15 - Powdered metals

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations
NOM-002-SCT
UN number : UN 1325
Proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S. (Aluminium pigment paste)
Class : 4.1
Packing group : II
Labels : 4.1

Special precautions for user
Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Federal Law for the control of chemical precursors, essential chemical products and machinery for producing capsules, tablets and pills.

The components of this product are reported in the following inventories:
DSL : All components of this product are on the Canadian DSL
TSCA : On TSCA Inventory

SECTION 16. OTHER INFORMATION

Full text of other abbreviations
ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
MX BEI : Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for workers occupationally exposed to chemical agents
MX OEL : Mexico. Occupational Exposure Limits
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
MX OEL / LMPE-PPT : Time weighted average
MX OEL / LMPE-CT : Short term exposure limit
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 Agency for...
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MX / EN