SAFETY DATA SHEET

Sample Aluminium Spray 400 ml 17-09021 400 ml

SECTION 1. IDENTIFICATION

Product name : Sample Aluminium Spray 400 ml 17-09021 400 ml
Product code : 08844605Z

Manufacturer or supplier's details
Company name of supplier : ECKART GmbH
Address : Guentersthal 4
Hartenstein 91235
Telephone : +499152770
Telefax : +499152777008
Emergency telephone : 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 in accordance with 29 CFR 1910.1200
Flammable aerosols : Category 1
Eye irritation : Category 2A
Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)
Specific target organ systemic toxicity - repeated exposure : Category 2

GHS label elements
Hazard pictograms:

Signal Word: Danger

Hazard Statements:
- H222 Extremely flammable aerosol.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:
- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

Prevention:
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear eye protection/ face protection.

Response:
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 Get medical advice/ attention if you feel unwell.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:
- P403 + P233 Store in a well-ventilated place. Keep
SAFETY DATA SHEET

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Version 1.0
Revision Date: 03/21/2018
SDS Number: 102000000137
Date of last issue: -
Date of first issue: 03/21/2018

P405 container tightly closed.
P410 + P412 Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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

Hazardous ingredients which must be listed on the label:
Acetic acid ethyl ester
2-Propanone
Benzene, dimethyl-
Acetic acid, butyl ester

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Acetic acid ethyl ester</td>
<td>141-78-6</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Acetic acid, butyl ester</td>
<td>123-86-4</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
<td>&gt;= 1 - &lt; 5</td>
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</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.

If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.

In case of eye contact : Immediately flush eye(s) with plenty of water.
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  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media  
Dry sand  
Carbon dioxide (CO2)  
Alcohol-resistant foam  
ABC powder  

Unsuitable extinguishing media  
Water  

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

Further information  
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.  

Special protective equipment for fire-fighters  
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures  
Use personal protective equipment.  
Avoid breathing dust.  
Ensure adequate ventilation.  
Remove all sources of ignition.
Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors 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:
- Do not flush with water.

SECTION 7. HANDLING AND STORAGE

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 vapors).
- Use only explosion-proof equipment.
- Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling:
- Do not breathe vapors/dust.
- Avoid exposure - obtain special instructions before use.
- Avoid contact with skin and eyes.
- 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.
- Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage:
- BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 122 °F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
- 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.
Further information on storage stability: No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**

<table>
<thead>
<tr>
<th>Ingredients</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>Butane</td>
<td>106-97-8</td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>Acetic acid ethyl ester</td>
<td>141-78-6</td>
<td>TWA</td>
<td>400 ppm 1,400 mg/m³</td>
<td>NIOSH REL</td>
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<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 1,400 mg/m³</td>
<td>OSHA Z-1</td>
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<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 1,400 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>250 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>250 ppm 590 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 2,400 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>750 ppm</td>
<td>OSHA P0</td>
</tr>
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</table>
### Benzene, dimethyl- 1330-20-7

<table>
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<tr>
<th></th>
<th>STEL</th>
<th>TWA</th>
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<tbody>
<tr>
<td></td>
<td>1,800 mg/m³</td>
<td>1,000 ppm</td>
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<tr>
<td></td>
<td>2,400 mg/m³</td>
<td>2,400 mg/m³</td>
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<tr>
<td></td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>150 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td>655 mg/m³</td>
<td>435 mg/m³</td>
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<tr>
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<td>OSHA P0</td>
<td>OSHA P0</td>
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<tr>
<td></td>
<td>TWA</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td>435 mg/m³</td>
<td>435 mg/m³</td>
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<tr>
<td></td>
<td>OSHA P0</td>
<td>OSHA Z-1</td>
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<tr>
<td></td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>150 ppm</td>
<td>100 ppm</td>
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<td></td>
<td>ACGIH</td>
<td>OSHA P0</td>
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<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>150 ppm</td>
<td>100 ppm</td>
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<tr>
<td></td>
<td>655 mg/m³</td>
<td>435 mg/m³</td>
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<tr>
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<td>OSHA P0</td>
<td>OSHA P0</td>
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<tr>
<td></td>
<td>TWA (total dust)</td>
<td>50 Million particles per cubic foot</td>
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<tr>
<td></td>
<td>OSHA Z-3</td>
<td>OSHA Z-3</td>
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<td></td>
<td>TWA (Respirable fraction)</td>
<td>5 mg/m³</td>
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<tr>
<td></td>
<td>NIOSH REL</td>
<td>NIOSH REL</td>
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<tr>
<td></td>
<td>TWA (total dust)</td>
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<td>OSHA Z-3</td>
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<td>TWA (total)</td>
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<td>NIOSH REL</td>
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<td>Aluminum 7429-90-5</td>
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<td>OSCH Z-3</td>
<td>OSHA Z-3</td>
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<td>TWA (respirable fraction)</td>
<td>15 Million particles per cubic foot</td>
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<tr>
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<td>OSHA Z-3</td>
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<td>ACGIH</td>
<td>ACGIH</td>
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<tr>
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<td>TWA</td>
<td>TWA (Aluminum)</td>
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<tr>
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<td>NIOSH REL</td>
<td>NIOSH REL</td>
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<td>TWA (Total)</td>
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<tr>
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<td>OSHA P0</td>
<td>OSHA P0</td>
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<td>TWA (Respirable fraction)</td>
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<td>OSHA P0</td>
<td>OSHA P0</td>
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<td>TWA (total)</td>
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<td>OSHA Z-1</td>
<td>OSHA Z-1</td>
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<tr>
<td>Substance</td>
<td>ST/STEL</td>
<td>TWA (respirable fraction)</td>
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<td>Acetic acid, butyl ester</td>
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<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
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<tr>
<td>Component</td>
<td>CAS Number</td>
<td>TWA</td>
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<tr>
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<td>------------</td>
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<tr>
<td>Butane</td>
<td>106-97-8</td>
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<td>1,900 mg/m³</td>
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<td></td>
<td>STEL 1,000 ppm</td>
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<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>TWA 1,000 ppm</td>
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<tr>
<td></td>
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<td>TWA 1,000 ppm</td>
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<tr>
<td>Acetic acid ethyl ester</td>
<td>141-78-6</td>
<td>TWA 400 ppm</td>
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<td>TWA 400 ppm</td>
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<td>TWA 400 ppm</td>
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<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
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<td></td>
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<td>TWA 1,000 ppm</td>
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<td></td>
<td></td>
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<td>STEL 1,000 ppm</td>
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<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
<td>TWA 100 ppm</td>
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<td>TWA 100 ppm</td>
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<td></td>
<td></td>
<td>TWA 100 ppm</td>
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<td></td>
<td></td>
<td>TWA 100 ppm</td>
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<tr>
<td>Substance</td>
<td>Value</td>
<td>Limit</td>
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</tr>
<tr>
<td>Aluminum</td>
<td>435 mg/m³</td>
<td>TWA</td>
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<td>100 ppm, ACGIH</td>
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<td></td>
<td>150 ppm, ACGIH</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>150 ppm, 655 mg/m³, OSHA P0</td>
<td>STEL</td>
</tr>
<tr>
<td>Aluminum (total</td>
<td>50 Million particles per</td>
<td>TWA</td>
</tr>
<tr>
<td>dust</td>
<td>cubic foot, OSHA Z-3</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³, NIOSH REL</td>
<td>(Respirable)</td>
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<tr>
<td></td>
<td>15 mg/m³, OSHA Z-3</td>
<td>Total</td>
</tr>
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<td>10 mg/m³, NIOSH REL</td>
<td>Respirable</td>
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<td>5 mg/m³, OSHA Z-3</td>
<td>fraction</td>
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<td></td>
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<td>Respirable</td>
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<tr>
<td></td>
<td>cubic foot, OSHA Z-3</td>
<td>fraction</td>
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<tr>
<td></td>
<td>1 mg/m³, ACGIH</td>
<td>welding</td>
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<td></td>
<td>5 mg/m³, NIOSH REL</td>
<td>fumes</td>
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<td></td>
<td>15 mg/m³, OSHA P0</td>
<td>(Aluminum)</td>
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<tr>
<td></td>
<td>5 mg/m³, OSHA P0</td>
<td>(Aluminum)</td>
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<td>5 mg/m³, OSHA Z-1</td>
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<td>15 mg/m³, OSHA P0</td>
<td>(Aluminum)</td>
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<td>5 mg/m³, OSHA P0</td>
<td>(Aluminum)</td>
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<tr>
<td></td>
<td>5 mg/m³, NIOSH REL</td>
<td>(Aluminum)</td>
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</table>
### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredients</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 (As soon as possible after exposure ceases)</td>
<td>25 mg/l</td>
<td>ACGIH BEI</td>
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<tr>
<td>Substance</td>
<td>CAS No.</td>
<td>Substance</td>
<td>Type</td>
<td>Limit Value</td>
<td>Source 1</td>
<td>Source 2</td>
</tr>
<tr>
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</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
<td>Methylhippuric acids</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>1.5 g/g creatinine</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
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<td>Methylhippuric acids</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>1,500 mg/g</td>
<td>ACGIH BEI</td>
</tr>
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<td></td>
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</tr>
<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>25 mg/l</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td></td>
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<tr>
<td>Benzene, dimethyl-</td>
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<tr>
<td></td>
<td></td>
<td>Methylhippuric acids</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>1,500 mg/g</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

Respiratory protection: In the case of vapor formation use a respirator with an approved filter.
In the case of dust or aerosol formation use respirator with an approved filter.

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 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: Tightly fitting safety goggles

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

Hygiene measures: When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: aerosol
Color: No data available
Odor: characteristic
Odor Threshold: No data available
pH: No data available
Melting point/freezing point: No data available
Boiling point/boiling range: -44 °C
Flash point: -97 °C
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper explosion limit / Upper flammability limit: No data available
Lower explosion limit / Lower flammability limit: No data available
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flammmability limit
Vapor pressure : No data available
Relative density : No data available
Solubility(ies)
   Water solubility : insoluble
Partition coefficient: n-octanol/water : No data available
Autoignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

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 : Stable under recommended storage conditions.
   Vapors may form explosive mixture with air.
Conditions to avoid : Heat, flames and sparks.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Ingredients:

Propane:
Acute inhalation toxicity : LC50 (Rat): 800000 ppm
   Exposure time: 0.25 h

Acetic acid ethyl ester:
Acute oral toxicity : (Rat): 5,620 mg/kg
Acute inhalation toxicity : LC50 (Rat): 56 mg/l
   Exposure time: 4 h
   Test atmosphere: vapor
Acute dermal toxicity : LD50 (Rabbit): > 18,000 mg/kg

2-Propanone:
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: vapor

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

Benzene, dimethyl-:
Acute dermal toxicity: Acute toxicity estimate: 1,100 mg/kg  
Method: Converted acute toxicity point estimate

Solvent naphtha (petroleum), light arom.:
Acute oral toxicity: LD50 (Rat): 3,492 mg/kg

Acute dermal toxicity: LD50 (Rabbit): > 3,160 mg/kg

Naphtha (petroleum), hydrotreated heavy:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity: LC50 (Rat): Test atmosphere: vapor  
Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation: Not classified based on available information.

Ingredients:
2-Propanone:
Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
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<thead>
<tr>
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<th>Revision Date</th>
<th>SDS Number</th>
<th>Date of last issue</th>
<th>Date of first issue</th>
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</thead>
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<td>03/21/2018</td>
<td>1020000000137</td>
<td></td>
<td>03/21/2018</td>
</tr>
</tbody>
</table>

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Ingredients:**

2-Propanone:
Remarks: Severe eye irritation

**Benzene, dimethyl:**
Result: Eye irritation

**Respiratory or skin sensitization**

**Skin sensitization**
Not classified based on available information.

**Respiratory sensitization**
Not classified based on available information.

**Ingredients:**

2-Propanone:
Remarks: Severe eye irritation

**Benzene, dimethyl:**
Result: Eye irritation

**Respiratory or skin sensitization**

**Skin sensitization**
Not classified based on available information.

**Respiratory sensitization**
Not classified based on available information.

**Ingredients:**

Benzene, dimethyl:
Assessment: Harmful in contact with skin or if inhaled.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.

**IARC**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

**NTP**
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**
Not classified based on available information.
STOT-single exposure
May cause drowsiness or dizziness.

Ingredients:
Benzene, dimethyl:
Assessment: May cause respiratory irritation.

Acetic acid, butyl ester:
Assessment: May cause drowsiness or dizziness.

Solvent naphtha (petroleum), light arom.:
Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Ingredients:
Benzene, dimethyl:
Assessment: May cause damage to organs through prolonged or repeated exposure.

Ingredients:
Benzene, dimethyl:
Repeated dose toxicity - : Harmful in contact with skin or if inhaled.
Assessment

Aspiration toxicity
Not classified based on available information.

Ingredients:
Benzene, dimethyl:
May be fatal if swallowed and enters airways.

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

**Ingredients:**

**Naphtha (petroleum), hydrotreated heavy:**
Remarks: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Ingredients:**

**Acetic acid ethyl ester:**
Toxicity to daphnia and other aquatic invertebrates: (Daphnia): 717 mg/l

**2-Propanone:**
Toxicity to daphnia and other aquatic invertebrates: (Daphnia magna (Water flea)): 21,600 mg/l

**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

**Ingredients:**

**Naphtha (petroleum), hydrotreated heavy:**
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 1950
Proper shipping name : Aerosols, flammable
Class : 2.1
Packing group : Not assigned by regulation
Labels : Flammable gas
Packing instruction (cargo aircraft) : 203
Packing instruction (passenger aircraft) : 203

IMDG-Code
UN number : UN 1950
Proper shipping name : AEROSOLS
Class : 2.1
Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U
Marine pollutant : no

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

Domestic regulation
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49 CFR
UN/ID/NA number : UN 1950
Proper shipping name : Aerosols

Class : 2.1
Packing group : Not assigned by regulation
Labels : FLAMMABLE GAS
ERG Code : 126
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
<td>100</td>
</tr>
</tbody>
</table>

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Benzene, dimethyl- 1330-20-7 >= 5 - < 10 %
Aluminum 7429-90-5 >= 5 - < 10 %

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
Benzene, dimethyl- 1330-20-7 8.6614 %
The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):
Butane 106-97-8 18.67 %
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Propane 74-98-6  18.66 %
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):
  Acetic acid ethyl ester 141-78-6  15 %
  2-Propanone 67-64-1  13.33 %
  Benzene, dimethyl- 1330-20-7  8.6614 %
  Acetic acid, butyl ester 123-86-4  4.9606 %

Clean Water Act
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
  Benzene, dimethyl- 1330-20-7  8.6614 %
  Acetic acid, butyl ester 123-86-4  4.9606 %
  Benzene, ethyl- 100-41-4  0.0557 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
  Benzene, dimethyl- 1330-20-7  8.6614 %
  Acetic acid, butyl ester 123-86-4  4.9606 %
  Benzene, ethyl- 100-41-4  0.0557 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations
Massachusetts Right To Know
  Butane 106-97-8
  Propane 74-98-6
  Acetic acid ethyl ester 141-78-6
  2-Propanone 67-64-1
  Benzene, dimethyl- 1330-20-7
  Aluminum 7429-90-5
  Acetic acid, butyl ester 123-86-4
  Solvent naphtha (petroleum), light arom. 64742-95-6
# SAFETY DATA SHEET

**Sample Aluminium Spray 400 ml 17-09021 400 ml**

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</table>

## Pennsylvania Right To Know

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
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<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
</tr>
<tr>
<td>Acetic acid ethyl ester</td>
<td>141-78-6</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
</tr>
<tr>
<td>Acetic acid, butyl ester</td>
<td>123-86-4</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
</tr>
<tr>
<td>1-Butanol</td>
<td>71-36-3</td>
</tr>
<tr>
<td>Benzene, ethyl-</td>
<td>100-41-4</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
</tr>
</tbody>
</table>

## California Prop. 65

**WARNING:** This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**WARNING:** This product can expose you to chemicals including Benzene, ethyl-, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

## California List of Hazardous Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
</tr>
<tr>
<td>Acetic acid ethyl ester</td>
<td>141-78-6</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
</tr>
</tbody>
</table>
Benzene, dimethyl- 1330-20-7
Aluminum 7429-90-5
Acetic acid, butyl ester 123-86-4

**California Permissible Exposure Limits for Chemical Contaminants**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
</tr>
<tr>
<td>Propane</td>
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<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
</tr>
<tr>
<td>Acetic acid, butyl ester</td>
<td>123-86-4</td>
</tr>
</tbody>
</table>

The ingredients of this product are reported in the following inventories:

- **DSL**: This product contains one or several components that are not on the Canadian DSL nor NDSL.
- **TSCA**: Not On TSCA Inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.
SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA : 8-hour time weighted average
OSHA P0 / STEL : Short-term exposure limit
OSHA Z-1 / TWA : 8-hour time weighted average
OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of
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Revision Date : 03/21/2018

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

US / Z8