1 Identification

- Product identifier
- Trade name: ALLOY PRIMER
- Article number: CA054
- Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- Application of the substance / the mixture: Adhesive, dental metal

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS02 Flame
    Flammable Liquids - Category 2  H225 Highly flammable liquid and vapour.
  - GHS07
    Eye Irritation - Category 2A  H319 Causes serious eye irritation.
    Specific Target Organ Toxicity - Single Exposure - Category 3  H336 May cause drowsiness or dizziness.

- Label elements
  - GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms: GHS02, GHS07
  - Signal word: Danger

- Hazard-determining components of labeling:
  acetone

- Hazard statements
  H225 Highly flammable liquid and vapour.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.

- Precautionary statements
  P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  P240 Ground and bond container and receiving equipment.
Trade name: ALLOY PRIMER

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

· Chemical characterization: Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquids - Category 2, H225; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H336</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-(4-Vinylbenzyl-N-propyl)amino-1,3,5-triazine-2,4-dithione</td>
</tr>
<tr>
<td>10-Methacryloyloxydecyl dihydrogen phosphate</td>
</tr>
</tbody>
</table>

4 First-aid measures

· Description of first aid measures
· After inhalation:
  Supply fresh air; consult doctor in case of complaints.
  In case of unconsciousness place patient stably in side position for transportation.
· After skin contact: Generally the product does not irritate the skin.
· After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing:
  Do not induce vomiting; immediately call for medical help.
  If symptoms persist consult doctor.
· Information for doctor:
  Most important symptoms and effects, both acute and delayed No further relevant information available.
  Indication of any immediate medical attention and special treatment needed
  No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents:
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· Special hazards arising from the substance or mixture No further relevant information available.
· Advice for firefighters
· Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: See Section 8.
- Environmental precautions:
  Dilute with plenty of water.
  Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
- 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.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: Store in a cool location (2-25°C).
    - Information about storage in one common storage facility:
      Store away from oxidizing agents.
      Store away from reducing agents.
    - Further information about storage conditions:
      Keep receptacle tightly sealed.
      Store in cool, dry conditions in well sealed receptacles.
      Protect from heat and direct sunlight.
    - Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
</tr>
<tr>
<td>EL</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
  - General protective and hygienic measures:
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes.
- Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:
  Neoprene gloves

(Contd. on page 4)
Solvent resistant 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
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.
Butyl rubber, BR
Neoprene gloves

· Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:
   Tightly sealed goggles

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>- Form: Liquid</td>
</tr>
<tr>
<td>- Color: Transparent</td>
</tr>
<tr>
<td>- Odor: Acetone-like</td>
</tr>
<tr>
<td><strong>pH-value:</strong> Not determined</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
</tr>
<tr>
<td>- Melting point/Melting range: -94.7 °C (acetone)</td>
</tr>
<tr>
<td>- Boiling point/Boiling range: 55 °C (acetone)</td>
</tr>
<tr>
<td><strong>Flash point:</strong> -19 °C (acetone)</td>
</tr>
<tr>
<td><strong>Ignition temperature:</strong> 465.0 °C (acetone)</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong> Not determined</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong> Product is not explosive.</td>
</tr>
<tr>
<td>However, formation of explosive air/vapor mixtures are</td>
</tr>
<tr>
<td>possible.</td>
</tr>
</tbody>
</table>

| **Explosion limits:**                                  |
| - Lower: 2.6 Vol % (acetone)                           |
| - Upper: 13.0 Vol % (acetone)                          |
| **Oxidizing properties**                               |
| Not determined                                         |
| **Vapor pressure at 20 °C:** 233.0 hPa (acetone)       |
| **Density:** 0.79 g/cm³ (acetone)                      |
| **Relative density** Not determined                    |
| **Vapor density** 2.0 g/cm³ (acetone, air=1)           |
| **Evaporation rate** Not determined                    |
| **Solubility in / Miscibility with Water:** Partly miscible. |
| **Partition coefficient (n-octanol/water):** -0.24 (acetone) |
Trade name: ALLOY PRIMER

- Viscosity: Not determined
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    67-64-1 acetone
    - Oral LD50: 5800 mg/kg (rat)
    - Dermal LD50: 20000 mg/kg (rabbit)
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization: Based on available data, the classification criteria are not met.
- Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer): None of the ingredients is listed.
    - NTP (National Toxicology Program): None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

(Contd. on page 6)
· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - **Uncleaned packagings:**
    - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **UN-Number**
  - DOT: UN1090
  - TDG, IMDG, IATA: 1090
- **UN proper shipping name**
  - TDG: 1090 ACETONE, solution
  - IMDG, IATA: ACETONE, solution
- **Transport hazard class(es)**
  - **DOT**
    - **Class:** 3 Flammable liquids
    - **Label:** 3
  - **TDG, IMDG, IATA**
    - **Class:** 3 Flammable liquids
    - **Label:** 3
  - **Packing group**
    - DOT, TDG, IMDG, IATA: II
  - **Environmental hazards:**
    - **Marine pollutant:** No
  - **Special precautions for user**
    - **Danger code (Kemler):** Warning: Flammable liquids
    - **EMS Number:** F-E,S-D
  - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
    - Not applicable.
  - **UN "Model Regulation":** UN1090; ACETONE, solution; 3; II
Trade name: ALLOY PRIMER

15 Regulatory information

- Sara
  - Section 355 (extremely hazardous substances):
    None of the ingredient is listed.
  - Section 313 (Specific toxic chemical listings):
    None of the ingredients is listed.
  - SARA 311/312: See Section 2 for the information on physical and health hazards.
- TSCA (Toxic Substances Control Act):
  All ingredients are listed.
- Canadian substance listings:
  - Canadian Domestic Substances List (DSL)
    All ingredients are listed.
  - Canadian Ingredient Disclosure list (limit 0.1%)
    None of the ingredients is listed.
  - Canadian Ingredient Disclosure list (limit 1%)
    All ingredients are listed.

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.

- * Data compared to the previous version altered.