### 1 Identification

- **Product identifier**
  - **Trade name:** ALLOY PRIMER
  - **Article number:** US054

- **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

- **Details of the supplier of the safety data sheet**
  - **Manufacturer:** Kuraray Noritake Dental Inc.
    - 1621 Sakazu, Kurashiki, Okayama 710-0801, Japan
  - **Contact information:** Kuraray America, Inc.
    - 33 Maiden Lane, 6th Floor, New York, NY 10038 U.S.A.
    - Tel: 800-879-1676
    - Fax: 888-700-5200
    - Website: www.kuraraydental.com
  - **Emergency telephone number:** For chemical emergency spill, leak, fire, exposure or accident
    - Call CHEMTREC day and night
    - Within USA and Canada: 1-800-424-9300 CCN706984 or +1 703-527-3887 (collect calls accepted)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - GHS02 Flame
    - Flam. Liq. 2 H225 Highly flammable liquid and vapor.
  - GHS07
    - Eye Irrit. 2A H319 Causes serious eye irritation.
    - STOT SE 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 vapor.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.

- **Precautionary statements**
  - 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.
  - P280 Wear protective gloves / eye protection / face protection.

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(Pcontd. of page 1)

- **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.
- **P312** Call a POISON CENTER/doctor if you feel unwell.
- **P403+P235** Store in a well-ventilated place. Keep cool.
- **P405** Store locked up.
- **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Substances** None
- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
</tr>
</tbody>
</table>

- **Other ingredients:**
  - 6-(4-Vinylbenzyl-N-propyl)amino-1,3,5-triazine-2,4-dithione
  - 10-Methacryloyloxydecyl dihydrogen phosphate

**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
  Wear protective equipment. Keep unprotected persons away.
- 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 storeroms 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
  - Components with limit values that require monitoring at the workplace:
    | Substance       | PEL    | REL   |
    |-----------------|--------|-------|
    | 67-64-1 acetone | 2400 mg/m³, 1000 ppm | 590 mg/m³, 250 ppm |
    |                 | Short-term value: 1782 mg/m³, 750 ppm | Long-term value: 1188 mg/m³, 500 ppm |
    |                 | BEI    |       |
  - 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
- 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]

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**9 Physical and chemical properties**

**Information on basic physical and chemical properties**

**General Information**

- **Appearance:** Liquid
- **Color:** Transparent
- **Odor:** Acetone-like
- **pH-value:** Not determined

**Change in condition**

- **Melting point/Melting range:** -94.7 °C (acetone)
- **Boiling point/Boiling range:** 55 °C (acetone)

- **Flash point:** -19 °C (acetone)
- **Ignition temperature:** 465.0 °C (acetone)
- **Decomposition temperature:** Not determined

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.

- **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)
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**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**
  - **Behavior in environmental systems:**
  - **Bioaccumulative potential**
  - **Mobility in soil**
  - No further relevant information available.
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- 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.
  - 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
  - ADR, IMDG, IATA 1090

- UN proper shipping name
  - ADR 1090 ACETONE, solution
  - IMDG, IATA ACETONE, solution

- Transport hazard class(es)
  - DOT
    - Class 3 Flammable liquids
    - Label 3
  - ADR, IMDG, IATA
    - Class 3 Flammable liquids
    - Label 3

- Packing group
  - DOT, ADR, IMDG, IATA II

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Warning: Flammable liquids

- Danger code (Kemler): 33

- EMS Number: F-E,S-D
45.1.3 · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
· UN "Model Regulation": UN1090; ACETONE, solution; 3; II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara
    · Section 355 (extremely hazardous substances): None of the ingredient is listed.
    · Section 313 (Specific toxic chemical listings): None of the ingredients is listed.
    · TSCA (Toxic Substances Control Act): All ingredients are listed.
  · Proposition 65
    · Chemicals known to cause cancer: None of the ingredients is listed.
    · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
    · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
    · Chemicals known to cause developmental toxicity: None of the ingredients is listed.
  · Cancerogenity categories
    · EPA (Environmental Protection Agency)
      67-64-1 acetone 1
    · TLV (Threshold Limit Value established by ACGIH)
      67-64-1 acetone A4
    · NIOSH-Ca (National Institute for Occupational Safety and Health)
      None of the ingredients is listed.
  · GHS label elements Not determined
  · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Relevant phrases
  H225 Highly flammable liquid and vapor.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.
· NFPA ratings (scale 0 - 4)
  Health = 1
  Fire = 3
  Reactivity = 0

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Trade name: ALLOY PRIMER

- HMIS-ratings (scale 0 - 4)
  - HEALTH: Health = 1
  - FIRE: Fire = 3
  - REACTIVITY: Reactivity = 0

- Abbreviations and acronyms:
  Flam. Liq. 2: Flammable liquids – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.