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## 1 Identification of substance

- **Product details**
- **Trade name:** ALLOY PRIMER
- **Article number:** US054
- **Application of the substance / the preparation** Adhesive, dental metal
- **Manufacturer:**  
Kuraray Medical Inc.  
1621 Sakazu, Kurashiki, Okayama 710-0801,  
Japan
- **Supplier:**  
Kuraray America, Inc.  
600 Lexington Avenue, 26th Floor, New York,  
NY 10022 U.S.A.  
Tel: 800-879-1676  
Fax: 888-700-5200  
Website: www.kuraraydental.com
- **Information department:** Supplier

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

67-64-1	acetone	Danger:  2.6/2	>90%
		Warning:  3.3/2A, 3.8/3	

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

## 3 Hazards identification

- **Hazard description:**



Irritant  
Highly flammable

- **Information pertaining to particular dangers for man and environment:**  
The product has to be labelled due to the calculation procedure of international guidelines.  
Highly flammable.  
Irritating to eyes.  
Vapours may cause drowsiness and dizziness.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**  
Health = 1  
Fire = 3  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  
Health = 1  
Fire = 3  
Reactivity = 0

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## · GHS label elements

**Danger**

2.6/2 - Highly flammable liquid and vapour.

**Warning**

3.3/2A - Causes serious eye irritation.

3.8/3 - May cause drowsiness or dizziness.

· **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

· **Response:**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

· **Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

· **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**4 First aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **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.

**5 Fire fighting measures**· **Suitable extinguishing agents:**

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Protective equipment:**

Wear self-contained respiratory protective device.

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Wear fully protective suit.

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## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Ensure adequate ventilation.

## 7 Handling and storage

- **Handling:**
- **Information 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.
- **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.

## 8 Exposure controls and personal protection

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

- **Components with limit values that require monitoring at the workplace:**

### 67-64-1 acetone

PEL	2400 mg/m <sup>3</sup> , 1000 ppm
REL	590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1782 mg/m <sup>3</sup> , 750 ppm
	Long-term value: 1188 mg/m <sup>3</sup> , 500 ppm
BEI	

- **Additional information:** The lists that were valid during the creation were used as basis.
- **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:**
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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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.

**· Penetration time of glove material**

The exact break through 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****· General Information**

<b>Form:</b>	Liquid
<b>Color:</b>	Transparent
<b>Odor:</b>	Acetone-like

**· Change in condition**

<b>Melting point/Melting range:</b>	94.7 °C (acetone)
<b>Boiling point/Boiling range:</b>	55 °C (acetone)

**· Flash point:** -19 °C (acetone)**· Ignition temperature:** 465.0 °C (acetone)**· Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.**· Explosion limits:**

<b>Lower:</b>	2.6 Vol % (acetone)
<b>Upper:</b>	13.0 Vol % (acetone)

**· Vapor pressure:** 233.0 hPa (20°C, acetone)**· Density:** 0.79 g/cm<sup>3</sup> (acetone)**· Vapour density** 2.0 g/cm<sup>3</sup> (acetone, air=1)**· Solubility in / Miscibility with Water:**

Partly miscible.

**· pH-value:** Not applicable**· Segregation coefficient (n-octanol/water):** -0.24 (acetone)**10 Stability and reactivity****· Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**· Dangerous reactions** No dangerous reactions known.**· Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

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**11 Toxicological information**· **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:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

**12 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.

**13 Disposal considerations**· **Product:**· **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**· **DOT regulations:**

· <b>Hazard class:</b>	3
· <b>Identification number:</b>	UN1090
· <b>Packing group:</b>	II
· <b>Proper shipping name (technical name):</b>	ACETONE, solution
· <b>Label</b>	3

· **Land transport ADR/RID (cross-border):**

· <b>ADR/RID class:</b>	3 Flammable liquids
· <b>Danger code (Kemler):</b>	33
· <b>UN-Number:</b>	1090
· <b>Packaging group:</b>	II
· <b>Label:</b>	3
· <b>Description of goods:</b>	1090 ACETONE, solution

· **Maritime transport IMDG:**

· <b>IMDG Class:</b>	3
· <b>UN Number:</b>	1090
· <b>Label</b>	3

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· **Packaging group:** II  
 · **EMS Number:** F-E,S-D  
 · **Marine pollutant:** No  
 · **Propper shipping name:** ACETONE, solution

· **Air transport ICAO-TI and IATA-DGR:**  
 · **ICAO/IATA Class:** 3  
 · **UN/ID Number:** 1090  
 · **Label** 3  
 · **Packaging group:** II  
 · **Propper shipping name:** ACETONE, solution

· **UN "Model Regulation":** UN1090; ACETONE, solution; 3; II

## 15 Regulations

· **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.

· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

67-64-1 acetone

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· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

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A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

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**· Hazard symbols:**Irritant  
Highly flammable**· Hazard-determining components of labelling:**

acetone

**· Risk phrases:**

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

**· Safety phrases:**

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

This material and its container must be disposed of as hazardous waste.

**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.

**· Version: 2****· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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