# **Material Safety Data Sheet**



Keysight Technologies, Inc. 1400 Fountaingrove Parkway Santa Rosa, California 95403

### GOLD SUBSTRATES - ANNEALED AU 2.0X1.6 CM ON MICA 2.4X1.6 CM - PACKAGE OF 5

#### Identification of the material and supplier 1

**Names** 

: GOLD SUBSTRATES - ANNEALED AU 2.0X1.6 CM ON MICA 2.4X1.6 CM -**Product name** 

PACKAGE OF 5

Part No. N9806B-FG, N9805A-FG, N9805B-FGN, 9806A-FG, N9807A-FG, N9807B-FG

**ADG** : Not regulated as Dangerous Goods according to the ADG Code

**Supplier** 

Supplier/Manufacturer : Keysight Technologies, Inc.

1400 Fountaingrove Parkway Santa Rosa, California 95403

**Emergency telephone** 

number

: (707) 577-3000

Monday - Friday 8:00 - 5:00

**Uses** 

Area of application : Industrial applications, Professional applications.

**Material uses** Analytical chemistry. 25MM OD 52MM HT x 5

#### **2** . Hazards identification

Classification : Not regulated. Risk phrases Not classified.

Safety phrases S36- Wear suitable protective clothing.

Statement of hazardous/ dangerous nature

: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

#### 3 Composition/information on ingredients

**Mixture** : Yes

Ingredient name	CAS number	%
Mica-group minerals	12001-26-2	>60

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### First-aid measures 4

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

: Flush contaminated skin with plenty of water. Remove contaminated clothing and Skin contact

shoes. Get medical attention if symptoms occur.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

Version: 3 Page: 1/5

#### 4. First-aid measures

**Advice to doctor** 

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

#### **Extinguishing media**

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

No specific fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: metal oxide/oxides

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

# 7. Handling and storage

**Handling** 

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Storage** 

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

Ingredient name	Exposure limits
Mica-group minerals	Safe Work Australia (Australia, 4/2013). TWA: 2.5 mg/m³ 8 hours. Form: Inspirable

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Exposure controls**

**Engineering measures** 

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Version: 3 Page: 2/5

### 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eyes** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

**Hands** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. Physical and chemical properties

Physical state

Solid.

Colour Not available. Odour Not available. **Boiling point** Not available. **Melting point** Not available. Vapour pressure Not available. Flash point Not available. Flammable limits Not available. Vapour density Not available. Hq Not available. **Auto-ignition temperature** : Not available.

### 10. Stability and reactivity

**Chemical stability** 

**Solubility** 

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: No specific data.

: Not available.

Materials to avoid

: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. Toxicological information

#### Potential acute health effects

Inhalation

No known significant effects or critical hazards.

Acute toxicity

Ingestion

Skin contact

Eye contact

Version: 3 Page: 3/5

### 11. Toxicological information

**Conclusion/Summary**: Not available.

Potential chronic health effects

**Irritation/Corrosion** 

**Conclusion/Summary**: Not available.

**Sensitiser** 

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Chronic effects
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.

Target organs : Contains material which may cause damage to the following organs: lungs, upper

respiratory tract, skin.

### 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

Other ecological information

Other adverse effects : No known significant effects or critical hazards.

### 13. Disposal considerations

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

**Regulatory information** 

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

# 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

**Control of Scheduled Carcinogenic Substances** 

Ingredient name	Schedule
No listed substance	

Australia inventory (AICS) : All components are listed or exempted.

Version: 3 Page: 4/5

### 16. Other information

Date of issue : 01/08/2014

Date of previous issue : 04/10/2010.

✓ Indicates information that has changed from previously issued version.

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Version: 3 Page: 5/5