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1) PRODUCT IDENTIFICATION

Product: BGL7080 **Product Type:** Liquid Wax
Product Description: Liquid wax
Recommendation On Use: Wafer adhesion with low temp mounting/demounting. **General Use:** Spin coating, backgrinding, reactive ion etching. **Restriction On Use:** Intended for designated use only

2) HAZARD IDENTIFICATION

WHMIS Classification: D2B Toxic material causing other effects. Slight skin irritant.
GHS Classification: Flammable liquids (Category 4) Skin Irritation (Category 2)
Signal Word: Danger



GHS Label elements: H315 Skin irritation. P280 Wear protective gloves, eye and face protection.
Precautionary Statement: For industrial use only **Physical Appearance:** Yellowish liquid **Immediate Concerns:** Highly flammable liquid (see MSDS for isopropanol)
Primary Route Entry: Eye and skin **Medical Conditions Aggravated:** Skin contact may aggravate an existing dermatitis (skin condition).

Potential Health Effects:
Eyes: Can cause eye damage (see MSDS for isopropanol) **Skin:** Irritant **Ingestion:** Harmful if swallowed (see MSDS for isopropanol) **Inhalation:** Can cause irritation in throat and lungs (see MSDS for isopropanol)

Signs and Symptoms of Overexposure:
Eyes: Irritation, watering and redness can result in burning. **Skin:** Skin sensitization may be evidenced by rashes, especially hives **Ingestion:** Causes burning of mouth, throat and stomach with abdominal and chest pain ,nausea, vomiting. **Inhalation:** Irritant

Acute Toxicity: None under normal use **Chronic Exposure:** No specific data **Carcinogenicity:** None under normal use **Mutagenicity:** None under normal use
Reproductive Effects: Not determined (see SDS for isopropanol) **Teratogenic Effects:** No known significant effects or critical hazards **Target Organ Stament:** Not Determined (see SDS for isopropanol) **Sensitization:**

3) COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL:	CAS NO	%
Wax	Proprietary	20 - 80
Isopropanol	67-63-0	'80-20

Note 1: Isopropyl alcohol is a highly flammable organic liquid, flash point - 7 deg C. Always wear protective gears - safety glasses or goggles, gloves, and fire resistant clothing. Handle chemicals in a well ventilated area and away from any ignition

4) FIRST AID MEASURES

First Aid Eye: Immediately wash with water for 15 minutes. **First Aid Skin:** Wash with soap and water. If symptoms develop, seek medical attention. **First Aid Inhale:** Move to fresh air. Seek medical attention if symptoms occur.
First Aid Ingest: None under normal use **Physician Note:** **Acute Symptoms:** Seek medical treatment
Delayed Symptoms: Seek medical treatment

5) FIRE FIGHTING MEASURES

Flammable Class: 3 **Flame Propagation or Burning Rate of Solids:** Not Determined.
General Hazard: Highly flammable organic liquid (please see SDS for isopropyl alcohol)
Extinguish Media: Carbon dioxide, foam, or dry chemical. Water spray
Hazardous Combustion Products: Decomposition and combustion products may be toxic
Fire Fighting Procedures: Use self-contained breathing apparatus; decomposition and combustion products may be toxic. **Unsuitable Firefighting Equipment:** Self-contained breathing apparatus and full protective clothing should be worn. Avoid inhalation of material or combustion by-products.
Suitable Firefighting Equipment: Not determined

Sensitive to Static Discharge No

Sensitive to Impact: No

6) ACCIDENTAL RELEASE MEASURES

Small Spill: Cover with sand and place in waste containers for proper disposal.

Large Spill: Contain spill and place in waste containers for proper disposal

Water Spill: Keep from going into water systems

Land Spill: Contain spill and place in waste containers for proper disposal

General Procedures:

Use the necessary tools and protective equipment for the situation.

Release Notes:

Wear protective gears to prevent contact with skin and eyes. Use non-sparking tools.

7) HANDLING AND STORAGE

Handling:

Use latex gloves and safety glasses

Storage:

Room temperature. Do not expose to elevated temperature.

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE Eye and Face: Use latex gloves and goggles

PPE Skin: Personal protective equipment should be worn based on the task being performed

Engineering Controls: Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

OSHA PEL

ACGIH TLV

EINECS

PPE Respiratory: Not normally required.

None Established

None Established

PPE Ventilation: Local exhaust ventilation is recommended if generating vapor, dust or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

None Established

None Established

PPE Other: Personal protective equipment should be worn based on the task being performed

Work Hygienic Practices: Local exhaust ventilation is recommended if generating vapor, dust or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

9) PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint and Method: Please see isopropanol MSDS

Lower Flammable Limits: Please see isopropanol MSDS

Upper Flammable Limits: Please see isopropanol MSDS

Physical State: Liquid

Autoignition Temperature: Not Determined

Odor: Solvent odor

Color: Yellowish

Odor Threshold: Not Determined

Vapor Pressure: See isopropanol SDS

pH: Not tested

Vapor Density: See isopropanol SDS

Freezing Point: -45 deg C

Boiling Point: Isopropanol SDS

Solubility in Water: None

Melting Point: Not determined

Density: 1.1

Evaporation Rate: 40-60%

Viscosity: 8,000 cp

Specific Gravity: <1

Coeff. Oil/Water: Not tested

Molecular Weight: Not tested

Appearance: Yellowish liquid

10) STABILITY AND REACTIVITY

Hazardous Polymerization: Stable under normal conditions of storage and use

Chemical Stability: Instable when exposed to high temperature

Polymerization: Unknown

Conditions to Avoid: Avoid excessive heat. Do not store near heat or flame

Hazardous Decomposition Products:

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

Incompatibility Materials:

There is no danger when product is cured.

11) TOXICOLOGICAL INFORMATION

Acute:

Eyes: **Dermal LD50:** Not tested

Oral LD50: Not tested

Inhalation LC50: No known significant effects or critical hazards

Eye Effects: May cause irritation to the eyes

Skin Effects: Minor irritation

Carcinogenicity:

IARC: No ingredients listed as human carcinogens. **NTP:** No ingredients listed as human carcinogens.

OSHA: Consistent with (29 CFR 1910 . 1200).

Sensitization: May cause sensitization by skin contact

Reproductive Effects: No known significant effects to critical hazards

TARGET ORGANS:

Eyes: Slight Irritant **Skin:** Slight Irritant **Gastrointestinal:** Not tested **Respiratory System:** Not tested

Teratogenic Effects: May cause sensitization by skin contact

Mutagenicity: Not Determined

12) ECOLOGICAL INFORMATION

Ecotoxicity: Do not discharge into sewer or waterways

Mobility in Soil: No known significant effects or critical hazards

Persistence and Degradability: Avoid runoff into storm sewers and ditches that lead to waterways. Water runoff can cause environmental damage.

Bioaccumulative Potential: No known significant effects or critical hazards

13) DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in an approved landfill.

For Large Spills: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Flush with water to remove any trace residue.

Product Disposal: Dispose in accordance with federal, state and local regulations.

Empty Container: Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements

14) TRANSPORT INFORMATION

Road and Rail (ADR/RID)

Transport Information:

See SDS for isopropanol

Kemler Number:

See SDS for isopropanol

Hazard Class:

Highly flammable solvent shipped with vermiculite

Air (CIAO/IATA)

Shipping Name: See SDS for isopropanol

Technical Name: See SDS for isopropanol

UN Number: See SDS for isopropanol

Primary Hazard Class: Flammable

Packing Group: See SDS for isopropanol

Label: N/A

Vessel (IMO/IMDG)

Shipping Name: See SDS for isopropanol

Technical Name: See SDS for isopropanol

UN Shipping Name: See SDS for isopropanol

Primary Hazard Class: Flammable

Packing Group: See SDS for isopropanol

Label: N/A.

15) REGULATORY INFORMATION

TCSA: No Data

Skin: Unknown

Gastrointestinal: Unknown

Respiratory System: Unknown

16) OTHER INFORMATION

HMIS Health Rating (1-4): 1

HMIS Flammability Rating (1-4): 3

HMIS Physical Hazard Rating (1-4): 2

Long Term Health Effects (Y/N): Not tested

Note: All ingredients in this product are on the Toxic Substances Control Act (TSCA) inventory or are not required to be listed.

No ingredient in this product is known to be carcinogenic.

Ingredients listed on the New Jersey "RIGHT TO KNOW" substance list: None

This product is compliant to RoHS & REACH and does not contain any Substances of Very High Concern

Section X: HMIG RATING: Health- 1 Flammability - 3, Reactivity- 0, Protective Equipment- G

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