



SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards

1. PRODUCT IDENTIFICATION

PRODUCT NAME: Unit Tray Adhesive

PRODUCT NUMBER: 1027GA, 1027GB

SYNONYMS: Water Based Adhesive

CHEMICAL FAMILY NAME: Proprietary Polymer

FORMULA: Mixture

PRODUCT USE:

Adhesive

U.S. MANUFACTURER/DISTRIBUTOR:

BIOQUIP PRODUCTS, INC.

ADDRESS:

2321 Gladwick Street
Rancho Dominguez, CA 92020

BUSINESS PHONE:

1-310-667-8800

WEBSITE:

www.bioquip.com

EMERGENCY PHONE:

For Chemical or Medical Emergency, 24hr, 7 days, 365

2. HAZARD IDENTIFICATION

Physical State: Viscous liquid

Classification

Reproductive toxicity

Category 1B

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Causes mild Skin irritation

Signal Word

Danger

Hazard Statements

May damage fertility of the unborn child



Precautionary Statements – Prevention

Obtain special instructions before use

Do not handle until all safety precaution have been read and understood

Use personal protective equipment as required

Use only outdoors or in a well-ventilated are

Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements – Response

If exposed or concerned: Get medical attention

Precautionary Statements – Storage

Store Locked up

Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION and INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight - %
Proprietary Filler	Proprietary	10-20
Proprietary Solvent	Proprietary	1-5
Proprietary Solvent	Proprietary	<1
Proprietary Polymer	Proprietary	<1
Proprietary Filler	Proprietary	<1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. If eye irritation persists consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes
Inhalation	Remove to fresh air.
Ingestion	Clean mouth with water and drink plenty of water afterwards

Most important symptoms and effects

Symptoms	Harmful if inhaled. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
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Indication of any immediate medical attention and special treatment needed

Note to Physician	Treat symptomatically
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media - Not determined.

Specific Hazards Arising from the Chemical

Not determined

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required
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Methods and material for containment and cleaning up

Methods of containment	Prevent further leakage or spillage if safe to do so.
Methods for clean-up	Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.
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Conditions for safe storage, including any incompatibilities

Storage Conditions:
Incompatible Materials:

Keep containers tightly closed in a dry, cool and well-ventilated place.
 None known based on information supplied

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS (continued):

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary filler	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Proprietary Solvent	TWA: 10 ppm	-	-
Proprietary Solvent	SEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³
Proprietary Polymer	STEL: 15 ppm TWA: 10 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m ³ (vacated) STEL: 20 ppm (vacated) STEL: 60 mg/m ³	Ceiling: 4 ppm 15 min Ceiling: 15 mg/m ³ 15 min
Proprietary Filler	TWA: 0.025 mg/m ³ respirable fraction	(vacated) TWA: 0.1 mg/m ³ respirable dust : (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust

Appropriate engineering controls

Engineering Controls: Showers
 Eyewash stations
 Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes

Skin and Body Protection Wear suitable protective clothing

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL and CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Viscous Paste	Odor	Mild odor
Appearance	Cream Paste	Odor Threshold	Not determined
Color	Cream		

9. PHYSICAL and CHEMICAL PROPERTIES (continued)

<u>Property</u>	<u>Values</u>
pH	9.0 – 9.5
Melting Point/Freezing Point	32 °F
Boiling Point/Boiling Range	100 °C (212.00 °F) water
Flash Point	None
Evaporation Rate	Slower than ether, >1
Flammability (Solid, Gas)	Not determined
Upper Flammability Limits	Not determined
Lower Flammability Limit	Not determined
Vapor Pressure	21 mm @ 71 °F
Vapor Density	Heavier than air, >1
Specific Gravity	~ 1.18 (9.6 – 10.0 lbs/gal.)
Water Solubility	None
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Thixotropic
Dynamic Viscosity	Thixotropic
Explosive Properties	Lower explosion limit: 0.3%
Oxidizing Properties	Not determined

10. STABILITY and REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable

Possibility of Hazardous Reactions

None under normal conditions

Conditions to Avoid

Keep out of reach of children

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes

Skin Contact Avoid contact with skin

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary Solvent	= 3600 mg/kg (Rat)	-	=253 g/m ³ (Rat) 30 min
Proprietary Solvent	=5628 mg/kg (Rat)	=15800 mg/kg (Rabbit)	=83.2 mg/L (Rat) 4 h = 64000
Proprietary Solvent	=2920 mg/kg (Rat)	=2320 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h = 3200 ppm (Rat) 4 h
Proprietary Solvent	=500 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms

11. TOXICOLOGICAL INFORMATION (Continued)

Delayed and Immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary Polymer	A3	Group 2B		X
Proprietary Filler	A2	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 – Animal Carcinogen

A2 – Suspected Human Carcinogen

IARC (International Agency for research on Cancer)

Group 2b – Possibly Carcinogenic to Humans

Group 1 – Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X – Present

STOT – repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Numerical measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Proprietary Solvent		67.3" 96 h Pimephales promelas mg/L LC50 flow-through		
Proprietary Solvent		28200: 96 H Pimephales promelas mg/L LC50 flow-Through 100: 96 h Pimephales promelas mg/L LC50 static 19500 – 2700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18-20: 96 h Oncorhynchus mykiss mL/L lc50 STATIC 13500 – 17600: 96 H Lepomis macrochirus mg/L LC50 flow-through	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	
Proprietary Polymer		14: 96 h Pimephales promelas mg/L LC50 static 15.04 – 21:54: 96 h Lepomis macrochirus mg/L LC50 static 26.1 – 36.63: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 2080 mg/L 5 min	52: 24 h Daphnia magna Mg/L EC50

Persistence/Degradability

Not Determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Proprietary Solvent	2.1
Proprietary Solvent	-0.77
Proprietary Polymer	0.73

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA – Basis for Listing	RCRA -D Series Waste	RCRA – U series Wastes
Proprietary Solvent		Included in waste stream: F039		U154

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Proprietary Solvent	Toxic Ignitable
Proprietary Polymer	Toxic Ignitable

14. TRANSPORTATION INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary Filler	Present	X		Present		Present	X	Present	X	X
Proprietary Solvent	Present	X		Present		Present	X	Present	X	X
Proprietary Solvent	Present	X		Present		Present	X	Present	X	X
Proprietary Polymer	Present	X		Present		Present	X	Present	X	X
Proprietary Filler	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

PICCS – Philippines Inventory of Chemicals and Chemical Substances

AICS – Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Proprietary Solvent	5000 lb		RQ 5000lb final RQ RQ2270 kg final RQ
Proprietary Polymer	5000 lb	5000 lb	RQ 5000lb final RQ RQ2270 kg final RQ

15. REGULATORY INFORMATION - Continued

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical of chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight-%	SARA 313 – Threshold Values %
Proprietary Solvent	Proprietary	<1	1.0
Proprietary Polymer	Proprietary	<1	0.1

CWA (Clean Water Act)

Chemical Name	CWA Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA- Hazardous Substances
Proprietary Polymer	5000 lb			X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Proprietary Solvent	Development Female Reproductive Male Reproductive
Proprietary Solvent	Developmental
Proprietary Filler	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Proprietary Filler	X	X	X
Proprietary Solvent	X	X	X
Proprietary Solvent	X	X	X
Proprietary Polymer	X	X	X
Proprietary Filler	X	X	X

16. OTHER INFORMATION

NFPA

Health Hazards

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not Determined

HMIS

Health Hazards

1

Flammability

1

Physical Hazards

0

Personal Protection

X

Disclaimer

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials of in any process, unless specified in the text.

End of Safety Data Sheet