Material safety date sheet (MSDS)

1	IDENTIFICATI	ON

T. IDENTIFICATI	Product Name Manufacture Information Address Telephone FAX Recommended use of the product and restrictions on use	gL2000 Gluon Lab LLC No.11,SankyoBldg,2-1-2-503,Koishikawa,Bunkyo-Ku, TOKYO JAPAN. +81-3-3811-7588 +81-3-3811-7588 Materials for electronics industry	
2. HAZARD IDEN GHS	TIFICATION		
	Physical Hazard Health Hazard Environmental Hazard	Flammable liquids Acute toxicity (oral) Aquatic environmental toxicity: acute Aquatic environmental toxicity:	Class 3 Not classified Class 3 Class 3
	GHS Label Element Symbols/Pictograms	()	
	SIGNAL WORD Hazard statements	WARNING H226 Flammable liquid and vapour. H303 May be harmful if swallowed. H315 Causes skin irritation. H332 Harmful if inhaled.	
	Precautionary statements [Safety Measures]	Keep away from heat, spark, open flames and hot surface. – No smoking Keep container tightly closed.(P233) Wear protective gloves, eye protection and face protection. (P280) Ground/bond container and receiving equipment if electrostatically sensitive material is to be reloaded.(P240) Use explosion-proof electrical, ventilating or lighting	
	[First Aid]	Use only non-sparking tools. (P242) Take precautionary measures against static discharge.(P243) Avoid release to the environment. (P27: If on skin or hair: Remove/take off immediately all contaminated	
	[First Aid] [Storage] [Disposal]	clothing. Rinse skin with water or sho In case of fire: Use appropriate media Store in cool and well-ventilated place Commission a waste disposal contract government to dispose of contents or	wer. (P303 + P361 + P353) for extinction.(P370 + P378) .(P403 + P235) or licensed by the local

3. COMPOSITION / INFORMATION ON INGREDIENTS

Classification of Substance and Mixture Mixture

		ENCS No		
Ingredient Name	Concentration or Concentration Range	Chemical Substances Control Law	Industrial Safety and Health Law	CAS-No.
Anisole (Methoxybenzene)	98~80%	(3)-556	(3)-556	100-66-3
Polystyrene type copolymer	2~20%	New Chemical Substances in a Small Quantity		Not Disclosed

4. FIRST-AID MEASURES

Inhalation

Move the suffering person to a place of fresh air, and let the person take rest in an easy-to-breath posture. If the person feels giddy, call a physician immediately.

Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of burns, immediately cool affected skin for as long as possible
Eye Contact	with cold water Immediately flush eyes with plenty of water, occasionally lifting upper
	and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at
	least several minutes. Get medical attention if irritation occurs.
	Contact may cause burns to eyes.
Ingestion	Call a phsician immediately, if giddy. Wash the mouth with water. Let the suffering person to vomit. Lay down the suffering person to on the side to prevent intake of the vomited filth into the trachea.
Acute and Chronic Effects	Inhalation: burning sensation, cough, sore throat
	Skin contact: skin dryness and redness Eye contact: redness and pain
	Ingestion: No data
Most Important Symptom / Effects	If swallowed the substance easily enters the airways and could result in
Protection of Personnel Involved in First Aid	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
	The first aid personnel must put on appropriate protective gears such
Special Remarks for Physician	Keep the patient calm. Observation of medical conditions is imperative. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Extinguishing Media Unsuitable Extinguishing Media	Regular foam, dry chemical, carbon dioxide, dry sand
Unique Danger and Hazard	Water, water jet Extremely flammable. Heat, sparks or flame cause fire.
	May cause fire after extinction
Unique Fire Fighting Method	Fire may produce irritating, corrosive and poisonous gases. Move container from the fire area if it can be done without risk. Do not move container when exposed to heat.
Protection of Fire-fighters	Remove ignition sources if it can be done without risk. The fire-fighters must put on respirators or gas mask and chemical resistant protective clothes.
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions, Protective	Remove all sources of ignition.
Equipment and Emergency Procedures	-
	Isolate the area with appropriate distances from the incident. Prohibit unauthorized entry into the area. Ventilate the closed area before entering.
Environmental Precautions	Do not release into the environment.
Recovery and Neutralization	Absorb or cover the leaked product with dry soil, sand or incombustible material and recover the leaked product to airtight containers for
Method and Materials for Containment and	
Cleaning Up	Stop leak if you can do it without risk.
Measures to Prevent Secondary Hazards	Promptly remove all fire sources (by prohibiting smoking, generation of spark and use of flame in nearby areas). Prevent flowing into drain, sewage, basement and closed area.
7. HANDLING AND STORAGE	
[Procedure for Handling]	
Technical Measures Local and Overall	Take measures specified in section 8 and put on the protective gears.
Ventilation	Provide local and overall ventilation as mentioned in section 8.
Cautions for Safe Handling	Wash thoroughly after handling. Never contact, inhale or swallow. Use only outdoors or in a well-ventilated area.
	Do not breath mist, vapour, spray. Prohibit the use of high-temperature objects, spark generation and use of the flame in the surrounding areas: NO SMOKING
Contact Prevention [Cautions for Safe Storage]	See section 10.
[Cautions for Safe Storage] Technical Measures	The storage facility should be designed with fire-proof construction and non-combustible materials. The storage floor should be protected from water penetration, or should have water proof construction.

		Storage Conditions Storage Incompatibility Suitable Container	damage. Measures Store the product a objects, spark and Close the containe Keep away from ox Avoid direct sunligh The container mus See section 10.	s to catch any spills apart from the fire s naked fire: NO SMO er tightly. Store in c kidants, strong acid, i ht and heat. It be stored at a well	ources such as high temperature KING ool dry place. strong base.
8.	_	NTROLS / PERSONAL PRO	TECTION		
	[Facility Meas	uresj	Take measures to Facilities storing or eyewash facility and a safety showe	_	f static electricity. al should be equipped with an
	[Protective				
	[Measures for	Respiratory Organ Hand Protector Eye Protector Skin and Body Protector Occupational Hygiene]	Wear appropriate p Wear appropriate p	e protective respira protective gloves. protective eyeglasses e protective clothin	5.
				ons of protective gea ughly after handling.	rs periodically.
9.	PHYSICAL AN Appearance	D CHEMICAL PROPERTIES Physical State Colour	Liquid Colourless		
		Odour	Aromatic odour		
	Melting Point Boiling Point		−37.5°C 155.5°C		
	Flash Point			ibrium closed cup me	ethod)
	Auto-ignition	Temperature	475 °C		
	Explosion Limi		0.3~6.3 %		
	Vapour Pressure		3.54 mmHg (25 °C) 3.72		
	Vapour Densit Density(g/cm3	-	3.72 0.9956		
	Solubility	,	Insoluble in water Soluble in alcohols	and ether	
10	. STABILITY AI Stability	ND REACTIVITY	Stable		
	Reactivity			sive vapour/air gas	mixture over 52°C
	Conditions to	Avoid	Temperature over		
	Materials to				ds, and strong base.
	Hazardous Rea	action/Decomposition Produc	Heat may produce	hydrogen chloride	
11.	. TOXICOLOGI Acute	CAL INFORMATION Oral	LD50-rat	UN Classification:	Class 5 as methoxybenzene
	Toxicity			3700mg/kg bw JE0	
		Inhalation	Gas Vapour	-	o classify. s/m3/2h (6328 mg/m3/4h = w 90% of saturated vapour
			Mist	No data available.	
	Skin Corrosive	/Irritation	Not enough data to skn-rbt 500 mg/24	o classify. IH MOD(RTECS (20	06))
	Serious Eye Damage/Irritation Respiratory / Skin Sensitization		No data available Respiratory sensiti	zation:	No data available
	Germ Cell Mutagenicity		Skin sensitization: No in vivo data to Negative in Ames i	• .	No data available
12	. ECOLOGICAI	. INFORMATION			
		the Aquatic Environment	Class 3	EC50=11.05mg/L(24hrs)(AQUIRE, 20	
		- the Aquatic Environment	Class 3	Determined from a	cute toxicity class 3 and 56%(Existing Chemical Survey

 13. DISPOSAL CONSIDERATIONS Disposal Methods Contaminated Containers and Packaging 	Observe the related laws and regulations, as well as the standards set by the municipal government for disposal of residual wastes. The residual wastes must be disposed through the independent industrial waste disposal entity duly licensed by Prefecture Governor or through the municipal government when the applicable municipal government is Containers must be recycled after complete cleaning or appropriate treatments in accordance with the provisions of the relevant laws and regulations, as well as the standards set by the municipal government. Completely remove the content before disposal.
14. TRANSPORT INFORMATION	
[International Regulations]	
Surface Water	Observe IMO regulations
UN No.	2222
Proper Shipping Name.	ANISOLE
Class	3
Packing Group	Π
Marine Pollutant	Not Applicable
Air Transportation	In accordance with ICAO/IATA
UN No.	2222
Proper Shipping Name.	Anisole
Class	3
Packing Group	Π
[Specific Safety Measures]	Must carry Yellow
	Do not transport with food nor feedstuff.
	Protect from direct sunlight
	Prior to transport, check the containers to prevent breakage, corrosion
	leakage and
	prevent collapsing and falling.
	Do not pile up heavy materials.

15. REGULATORY INFORMATION

EINECS TSCA MITI 2028761: Anisole : Listed 100-66-3 : Anisole : Listed 3-556 : Anisole :

16. OTHER INFORMATION

Reference Described at each data.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gluon Lab LLC. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gluon Lab LLC.has been advised of the possibility of such damages.