CHIPQUIK® Gallium

www.chipquik.com

Safety Data Sheet (SDS) www.chipquik.com To comply with European CLP Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878, US 29CFR 1910.1200 OSHA's Hazard Communication Standard, and Australian NOHSC: 1008 [2004] and ADG Code 7.4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SYNONYMS: PART NUMBERS:	Gallium GA100-10G, GA100-50G, GA100-100G, GA100-500G, GA100-1000G
MANUFACTURER: ADDRESS:	Chip Quik Inc. 931-3909 Witmer Rd., Niagara Falls, NY 14305 (USA) 3rd Floor, 207 Regent Street, London W1B 3HH (UK) 13 Adelaide Road, Dublin, Ireland, D02 P950 (EU) 8-1500 Sandhill Dr., Ancaster, ON L9G 4V5 (Canada) 42A Crimea Street, C/O A03886, Parramatta, NSW, 2150 (Australia)
PHONE: EMERGENCY PHONE:	(508) 477-2264 (800) 424-9300 (USA and Canada 24/7 CHEMTREC) +44 20 3868 7152 (UK and EU 24/7) +61 2 8607 7057 (Australia 24/7)
REVISION DATE: REVISION NUMBER: REVISED BY:	2023/12/13 1.7 Chip Quik Product Safety

PRODUCT USE: Electronic circuits, semiconductors, LEDs, creating low melting point alloys.

2. HAZARD IDENTIFICATION

Classified in accordance with European CLP Regulation 1272/2008

1	H290		
4	H302		
4	H317		
2	H319		
2	H315		
1	H317		
ty (STOT) ·	- Single Exposure (SE) Respiratory Tract Irritation	3	H332, H335
	4 2 2 1	4 H302 4 H317 2 H319 2 H315 1 H317	4 H302 4 H317 2 H319 2 H315

CHEMICAL NAME: CHEMICAL FAMILY:	Gallium
CHEMICAL FORMULA:	Ga
ROUTES OF ENTRY:	Inhalation, Ingestion, Skin/Eye Contact
TARGET ORGANS:	NA

GHS/CLP:



GHS/CLP LABEL ELEMENTS:

Hazard statement(s)	
H290	May be corrosive to metals.
H302	Harmful if swallowed
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Precautionary statement(s)	
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P260Do not breathe dust/fume/gas/mist/vapor/spray.P262Do not get in eyes, on skin, or on clothing.P264Wash hands thoroughly after handling.P270Do not eat, drink, or smoke when using this product.P271Use in a well-ventilated area.P272Contaminated work clothing should not be allowed out of the workplace.P273Avoid release to the environment.P280Wear protective gloves/protective clothing/eye protection/face protection.P284In case of inadequate ventilation wear respiratory protection.P301/P330/P331/P310IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/Doctor.P303/P361/P352/P333/P313IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with soap & water. Get medical advice/attention if skin irritation or rash occurs or if you feel unwell.P304/P340/312IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.P308/P313IF EXPOSED OR CONCERNED: Get medical advice/attention.P342/P311IF EXPOSED OR CONCERNED: Get medical advice/attention.P362Take off contaminated clothing and wash it before reuse.P391Collect spillage.P405Store in a dry place. Store in a closed container.P405Store in centensic/container in accordance with local/regional/national/international regulations.	P233	Keep container tightly closed.
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P501 Dispose of contents/container in accordance with local/regional/international regulations.		
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

OTHER HAZARDS:

None known.

SECTION 2 NOTES:

Chip Quik Inc. does not recommend, manufacture, market, or endorse any of its products for human consumption.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Classified in accordance with European CLP Regulation 1272/2008

Hazardous Ingredients ⁽¹⁾	C.A.S. Number	Weight Percent	OSHA PEL mg/m ³	ACGIH TLV TWA mg/m ³	LD 50 Ingested g/Kg	LD 50 Inhaled g/m ³
Gallium	7440-55-3	100%				

SECTION 3 NOTES:

(1) Per 29 CFR 1910 the mixture has not been tested as a whole. All hazardous components, which comprise 1% of the mixture (0.1% carcinogenic), are listed. Percentages of individual components are not listed as this information is considered a trade secret.

4. FIRST-AID MEASURES

Emergency first aid procedures:

EYES: Flush with plenty of water, contact a physician. If contact lenses can be removed easily, flush eyes without contact lenses.

SKIN: Wash affected area with plenty of warm, soapy water. If irritation persists, seek medical attention.

INGESTION: Call a physician or Poison Control Center immediately. Do not induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person

INHALATION: Remove to fresh air. Support respiration if required. If not breathing, seek immediate medical attention.

5. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

Dry chemical, foam	
Alcohol-resistant foam	
Carbon Dioxide (CO2)	
Water Spray	
· · ·	

SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH-approved self-contained Breathing Apparatus and full protective clothing if involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS AND EQUIPMENT: Material will flow if heated above melting point.

ACCIDENTAL RELEASE MEASURES: If material spills or leaks use a spatula to collect and place it in a plastic or glass jar. Remove traces of residue using cloth rags or paper towels. Follow on-site personal protective equipment recommendations.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Collect spillage.

SECTION 6 NOTES:

See Sections 2, 4, and 7 for additional information.

7. HANDLING AND STORAGE

HANDLING/STORAGE: Keep containers tightly closed when not in use. Use care to avoid spills. Avoid inhalation of fumes or dust. Avoid contact with eyes, skin, and clothing. Store in a closed corrosive resistant container, with corrosive resistant liner, in cool dry place. Wear appropriate personal protective equipment when working with or handling. Always wash hands thoroughly after handling this product. Dispose of following Federal, State/Provincial, and Local regulations.

OTHER PRECAUTIONS: Empty containers may retain product residues in vapor, liquid, and/or solid form. All labeled hazard precautions should be observed.

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in work areas. Always wash hands after handling material and before applying or using cosmetics/food/drink/tobacco.

SECTION 7 NOTES:

Keep out of reach of children. Not for internal consumption.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance Name	End Use	Exposure Route	Potential Health Effects	Value		
NA						

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance Name	Environmental Compartment	Value

NA

Also see section 3.

ENGINEERING CONTROLS: Use only with production equipment designed for use with Gallium.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLVs.

RESPIRATORY PROTECTION: A (US: NIOSH; EU: EN 140:1998, EN 14387:2004 A) approved air-purifying respirator with fume/organic chemical cartridge should be worn when airborne concentrations may be exceeded. General and local exhaust ventilation is the preferred means of protection.

EYE PROTECTION: Use with appropriate eye protection: Goggles or face shield (EU: EN 166-S 3 9).

SKIN PROTECTION: Protective gloves should be worn when the possibility of skin contact exists (EU: EN 374-1:2003).

PROTECTIVE CLOTHING OR EQUIPMENT: Work clothes should be worn and laundered in accordance with current standards (US: OSHA).

WORK HYGIENIC PRACTICES: Cosmetics/Food/Drink/Tobacco should not be consumed or used in areas where solder products may be used. Always wash hands after handling soldering products and before applying or using cosmetics/food/drink/tobacco.

OTHER: Maintain eye wash stations in work areas. Avoid the use of contact lenses in high fume areas. Clean protective equipment regularly. Clean up spills immediately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.2 Other Information

9.2.1 Information with regard to physical hazard classesNo additional information available.9.2.2 Other safety characteristics

10. STABILITY AND REACTIVITY

STABILITY: CONDITIONS TO AVOID (STABILITY):

INCOMPATIBILITY (MATERIAL TO AVOID): HAZARDOUS DECOMPOSITION/BY-PRODUCTS: POSSIBILITY OF HAZARDOUS REACTIONS:

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Stable under normal conditions, moisture sensitive Incompatible products (Aluminum). Excess heat. Avoid dust formation. Exposure to moist air or water. Oxidizing materials, acids, hydrogen peroxide, bases None under normal use conditions None known, based on information available

, i		Ingestion Eye Conta	act		
ACUTE TOXICITY: SKIN CORRISION/IRRITATION: SERIOUS EYE DAMAGE/IRRITATI RESPIRATORY OR SKIN SENSITI. GERM CELL MUTAGENICITY: CARCINOGENICITY:		E A E			
OSHA: NA	ACGIH: NA		NTP: NA	IARC: NA	
REPRODUCTIVE TOXICITY: STOT-SINGLE EXPOSURE: STOT-REPEATED EXPOSURE:	N/ N/ N/	Á			

Skin Contact

NA

ASPIRATION HAZARD:

11.2 Information on other hazards:

11.2.1 Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named manufacturer, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SECTION 11 NOTES:

This product has not been tested as a whole to determine its hazards. Synergistic or additive effects of the above chemicals are unknown, as are the effects of exposure to these chemicals in addition to others present in the work place. See Section 2 for additional health hazards.

12. ECOLOGICAL INFORMATION

TOXICITY: PERSISTENCE AND DEGRADIBILITY: BIOACCUMULATIVE POTENTIAL:	NE NE		
Product/Ingredient Name LogPow	BCF	Potential	
NA			
MOBILITY IN SOIL:	NE		
RESULT OF PBT and vPvB ASSESSMENT:	NA		
12.6 Endocrine Disrupting Properties:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher		
12.7 OTHER ADVERSE EFFECTS:	No known significant effects or critical hazards	-	

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Scrap and waste should be recycled or stored in a dry, sealed container for later disposal. Disposal must be in accordance with Federal, State/Provincial, and Local Regulations.

OTHER PRECAUTIONS: Avoid skin & eye contact, inhalation & ingestion of fumes and material. Wash contaminated clothing before reuse. Keep away from children.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

UN Number:	UN2803
UN Proper Shipping Name:	Gallium
Packaging Group:	111
Environmental Hazards:	Not a Marine Pollutant

TRANSPORT HAZARD CLASSES: US DOT Hazardous Material Classification:

Water Transporta IATA Hazardous ADR Road Regul IMDG Sea Regul ADG Land Trans	Material Classification: ations ations	UN2803 Gallium UN2803 Gallium UN2803 Gallium UN2803 Gallium UN2803 Gallium		Packing Group III Packing Group III Packing Group III Packing Group III Packing Group III	Limited Quantity < 5kg
15. REGULATO	DRY INFORMATION				
United States Re TSCA 8 (b) Inver TSCA 12 (b) Exp		All components are (TSCA) Inventory. Not required.	listed or are exemp	ot from listing on the	Toxic Substances Control Act
Canada Regulate CEPA DSL/NDSI		All components are List.	listed on or are exe	empt from listing on t	he Canadian Domestic Substances
U.S. FEDERAL F STATE REGULA INTERNATIONA AUSTRALIAN RI	TIONS: L REGULATIONS:	Not regulated Not regulated Not regulated Not regulated			
16. OTHER INFORMATION					
LEGEND: ACGIH ADG ADR AICS BCF C.A.S.	American Conference of Governmenta Australian Dangerous Goods Code European Agreement concerning the I Australian Inventory of Chemical Subs Bioconcentration factor Chemical Abstract Service	nternational Carriage		ls by Road	

Aloo	
BCF	Bioconcentration factor
C.A.S.	Chemical Abstract Service
CLP	Classification, Labeling and Packaging
DOT	Department of Transportation
EC	Effective Concentration
EPA	Environmental Protection Agency
GHS	Global Harmonized System
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal Concentration
LD	Lethal Dose
NA	Not available
NE	Not established
NIOSH	National Institute for Occupational Safety & Health
NOEC	No observed effective concentration
NOHSC	National Occupational Health and Safety Commission (Australia)
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
Pow	Octanol water partition coefficient
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
STOT	Specific target organ toxicity
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA:	Time Weighted Average
US DOT:	United States Department of Transportation

PREPARATION INFORMATION:

This update supersedes all previously released documents.

DISCLAIMER:

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