

Plasmaterials, Inc.
 2268 Research Drive
 Livermore, CA 94550
 Ph: (925) 447-4030 Fx: (925) 447-4031
<http://plasmaterials.com>

MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION Ga	PRODUCT NAME Gallium
--------------------------	--------------------------------

Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
Gallium	7440-55-3	69.72	NE	NE

Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPEARANCE AND ODOR Grayish black pieces, metallic taste, Odorless.
MELTING POINT (BASE METAL) 29.7° C	SPECIFIC GRAVITY 5.90gm/cc

Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N.A.	UEL N.A.
EXTINGUISHING MEDIA N/A. Use suitable extinguishing media for surrounding materials and type of fire.			
SPECIAL FIRED FIGHTING PROCEDURES Firefighter must wear a self-contained breathing apparatus and full protective clothing. Isolate runoff.			
UNUSUAL FIRE AND EXPLOSION HAZARDS When heated to decomposition gallium metal may emit toxic fumes. Potentially explosive reaction with hydrogen peroxide. May have violent reaction with halogens. May react with alkalis to evolve hydrogen. Causes embrittlement of aluminum.			

Section 5- REACTIVITY DATA

STABILITY Stable	INCOMPATIBILITY (MATERIALS TO AVOID) Hydrogen Peroxide, Hydrochloric Acid, Halogens and Aluminum
CONDITIONS TO AVOID None	
HAZARDOUS DECOMPOISTION PRODUCTS Hydrogen Gas	

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation **Skin** **Skin Absorption** **Eye Contact** **Ingestion**

INHALATION: May cause irritation of the upper respiratory tract. Chronic: may cause depression of the bone marrow function.

INGESTION: May cause anorexia, nausea and vomiting.

SKIN: May cause severe irritation. Poison by subcutaneous route. Chronic: may cause dermatitis and depression of the bone marrow function.

EYES: May cause severe irritation and redness.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove from exposed area to fresh air. Restore and/or support breathing as required.

INGESTION: Give 1-2 glasses of water and induce vomiting.

SKIN CONTACT: Wash affected area with soap and water.

EYES: Flush eyes with warm water, lifting upper and lower eyelids for at least fifteen minutes.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCUDRES

Wear a self contained breathing apparatus and full protective clothing. Isolate spill and provide ventilation. Vacuum up spill and place in a container for proper disposal.

WASTE DISPOSAL METHODS

Dispose of in accordance with applicable federal, state and local regulations.

Section 8- SPECIAL PROTECTION

RESPIRATORY

NIOSH approved dust-mist respirator.

VENTILATION

Local exhaust:

To Maintain concentration at low exposure levels.

Mechanical Exhaust:

Recommended.

EYE PROTECTION & PROTECTIVE CLOTHING

Safety glasses, rubber gloves and protective gear suitable to prevent contamination.

Section 9- SPECIAL PRECAUTIONS

Implement engineering and work practices to reduce and maintain concentration to low levels.

Use good housekeeping and sanitation practices. Do not use tobacco or food in work area.

Wash hands and face thoroughly after handling and before eating or smoking. Do not blow dust off clothes or skin with condensed air.

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.