

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 1] WHMIS 2015: Corrosive to Metals [Category 1] Skin Corrosion/Irritation [Category 1B] Signal word: Danger! Hazard Statement(s): May be corrosive to metals Causes severe skin burns and eye damage Pictogram(s) or Symbol(s): Precautionary Statement(s): Keep only in original container. Do not breathe dusts or mists. Wash hands and face thoroughly after [Prevention] handling. Wear protective gloves, protective clothing, face protection. [Response] If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Absorb spillage to prevent material damage. [Storage] Store in corrosive resistant bottle or metal container with a resistant inner liner. Store locked up. [Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

May be harmful if swallowed.

Hazards not otherwise classified: [HNOC] Gallium(III) Chloride Anhydrous G0359

For laboratory research purposes. Not for drug or household use.

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

TCI AMERICA SAFETY DATA SHEET

TCI AMERICA

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance Gallium(III) Chloride Anhydrous
Percent:	98
CAS RN:	13450-90-3
Molecular Weight:	176.07
Chemical Formula:	GaCl₃

4. FIRST-AID MEASURES

Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a		
	POISON CENTER or doctor/physician.		
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.		
	Immediately call a POISON CENTER or doctor/physician.		
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		
-	Continue rinsing.Immediately call a POISON CENTER or doctor/physician.		
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.		
Symptoms/effects:			
Acute:	Pain. Redness.		
Delayed:	No data available		
Indication of any immediate medical atte	ention:		
Not available.			
Notes to physician:			
No data available			
5. FIRE-FIGHTING MEASURES			
Orditable and in malable manadia	Development of the development of the second s		
Suitable extinguishing media:	Dry chemical, carbon dioxide.		
Unsuitable extinguishing media:	Water		
Herendeve combustion and water			
Hazardous combustion products:	These products include: Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.		
Other specific hazards:	WARNING. Highly toxic Hel gas is produced during combustion.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
Advice for menginers.	Wear seir contained breathing apparates in possible.		
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to		
	non-involved personnel should be controlled around the leakage area by roping off, etc.		
Environmental precautions:	Prevent product from entering drains.		
Methods and materials for containment			
and cleaning up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.		
Prevention of secondary hazards:	Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be		
	prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent		
	dispersion of dust. Wash hands and face thoroughly after handling.		
	Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.		
	Avoid contact with skin, eyes and clothing.		
	May develop pressure. Open carefully. Use corrosive resistant equipment.		
Conditions for safe storage, including a			
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.		
	Store under inert gas. Protect from moisture. Store locked up.		
	Store away from incompatible materials such as oxidizing agents.		
De alta viv en actavial	Moisture-sensitive		
Packaging material:	Comply with laws. Keep only in original container.		

TCI AMERICA

Page 3 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Almost white No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	78°C (172°F) 201°C (394°F) No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents] Soluble:	No data available Benzene, Carbon tetrachl		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. Decomposes in contact with water and liberates toxic gases. Moisture Oxidizing agents, Bases, Water Carbon monoxide, carbon dioxide etc **TCI AMERICA**

11. TOXICOLOGICAL INFORMATIC	λ <i>ι</i>			
TT. TOXICOLOGICAL INFORMATIC	///			
RTECS Number: LW9100000				
Acute Toxicity:				
ihl-rat LCLo:316 mg/m³/3H scu-rat LD50:306 mg/kg		ipr-mus LD50:36975 ug/kg ivn-rat LD50:47 mg/kg		
scu-lat ED30.300 llig/kg		WI-fat ED50.47 Hig/kg		
Skin corrosion/irritation:				
No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization:				
No data available				
Germ cell mutagenicity:				
dnr-bcs 2350 ug/disc				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:	No doto ovoiloblo			
Fish: Crustacea:	No data available No data available			
Algae:	No data available			
Algae.				
Persistence / degradability:	No data available			
Bioaccumulative potential(BCF):	No data available			
Mobility in soil				
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Recycle to proces	s if possible. It is the generator's respo	nsibility to	comply with Federal, State and
		gulations. You may be able to dissolve		
		nical incinerator equipped with an after		
	intended to provid	e assistance but does not replace thes	e laws, no	r does compliance in accordance

Disposal of container: Other considerations: Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

be allowed to enter the environment, drains, water ways, or the soil.

with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN3260	Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
IATA UN number: UN3260	Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
IMDG UN UN3260 numb er:	Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
EmS number:	F-A, S-B		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardo	ous substance	and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Listed		
State Regulations	6			
State Right-to-Kn				
Massachuset	ts	Listed		
New Jersey		Listed		
Pennsylvania	1	Listed		
California Propos	sition 65:	Not Listed		
Other Information	<u>1</u>			
NFPA Rating:	_		HMIS Classification:	
Health:	3		Health:	3
Flammability:	0		Flammability:	0
Instability:	0		Physical:	0
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		236-610-0		

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or 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 chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.