Material Safety Data Sheet

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Version 1.2
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

Product Name	GALLAMINE TRIETHIODIDE
Product Number	G8134
Company	Sigma-Aldrich Pty. Ltd. 12 Anella Avenue Castle Hill NSW 2154 Australia
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2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number
GALLAMINE TRIETHIODIDE	65-29-2	200-605-1	None

Formula	C30H60N3O3.3I
Molecular Weight	891.54 AMU
Synonyms	Benzcurine iodide * F 2559 * Flacedil * Flaxedil * Fourneau 2559 * Gallamin * Gallamine * Gallamine iodide * Gallamine-3ETI * Gallamine triethiodide * Gallamine triiodoethylate * Gallamin triethiodide * (v-Phenenyltris(oxyethylene))tris(triethylammonium iodide) * Relaxan * Remyolan * Retensin * RP 3697 * 3.697 R.P. * Sincurarine * Syncurarine * Tricuran * Tri(beta-diethylaminoethoxy)-1,2,3-benzenetri-iodoethylate * 1,2,3-Tri(beta-diethylaminoethoxy)benzene triethiodide * Triiodoethylate de gallamine (French) * Triiodoethylate of tri(diethylaminoethyloxy)-1,2,3-benzene * Tri(iodoethylate) de tri (beta diethylaminoethoxy)-1,2,3 benzene (French) * Triiodure de tri(beta-triethylammoniumethoxy)-1,2,3 benzene (French) * 1,2,3-Tris(2-diethylaminoethoxy)benzene triethiodide * 1,2,3-Tris(2-diethylaminoethoxy)benzene

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
Harmful if swallowed. Irritating to eyes, respiratory system and skin.

4 - First Aid Measures

AFTER INHALATION
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING
Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Conditions of Storage: Keep tightly closed. Store in a cool dry place. Store with desiccant.
Store at 2-8°C

SPECIAL REQUIREMENTS: Light sensitive. Hygroscopic.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Government approved respirator.
Hand Protection: Compatible chemical-resistant gloves.
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance: Physical State: Solid
Color: White

Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	235 °C	
Flash Point	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG/Density	N/A	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

10 - Stability and Reactivity

STABILITY
Stable: Stable.
Conditions to Avoid: Moisture.
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen iodide, Nitrogen oxides.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: BS1100000

ACUTE TOXICITY

LD50
Oral
Rat
> 1000 mg/kg

LD50
Intraperitoneal
Rat
23200 UG/KG

LD50
Subcutaneous
Rat
28500 UG/KG

LD50
Intravenous
Rat
5100 UG/KG

LD50
Intraduodenal
Rat
380 MG/KG

LD50
Oral
Mouse
425 mg/kg

LD50
Intraperitoneal
Mouse
10 MG/KG
Remarks: Behavioral:Excitement. Lungs, Thorax, or Respiration:Respiratory depression. Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage).

LD50
Subcutaneous
Mouse
16400 UG/KG
Remarks: Lungs, Thorax, or Respiration:Other changes. Behavioral:Muscle weakness. Lungs, Thorax, or Respiration:Respiratory depression.

LD50
Intravenous
Mouse
1800 UG/KG

LD50
Parenteral
Mouse
1700 UG/KG
Remarks: Lungs, Thorax, or Respiration:Other changes.

LD50
Intravenous
Dog
800 UG/KG

LD50
Oral
Rabbit
100 mg/kg

LD50
Intravenous
Rabbit
440 UG/KG
Remarks: Behavioral:Rigidity (includes catalepsy).
Behavioral:Altered sleep time (including change in righting reflex). Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other.

LD50
Intravenous
Chicken
600 UG/KG

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE
Skin Contact: Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes eye irritation.
Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION
Nerves. Skeletal muscle.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR
Non-hazardous for road transport.

IMDG
Non-hazardous for sea transport.

IATA
Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22-36/37/38

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

S-PHRASES: 26-36-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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