



with skin and if swallowed. Causes burns. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Formula C7H10O3  
Molecular Weight 142.16 AMU  
Synonyms CP 105 \* Acriester G \* Blemmer G \* Blemmer GMA \*  
2,3-Epoxypropyl methacrylate \* Glycidyl  
methacrylate \* Glycidyl alpha-methyl acrylate \*  
Light Ester G \* 2-((Methacryloxy)methyl)oxirane  
\* 1-Propanol, 2,3-epoxy-, methacrylate \*  
2-Propenoic acid, 2-methyl-, oxiranylmethyl  
ester (9CI) \* SR 379 \* SY-Monomer G

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#### 4 - First Aid Measures

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##### AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

##### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

##### 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.

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#### 5 - Fire Fighting Measures

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##### EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

##### SPECIAL RISKS

Specific Hazard(s): Combustible liquid. 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.

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#### 6 - Accidental Release Measures

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

##### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

##### METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed

container, and hold for waste disposal.

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## 7 - Handling and Storage

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### HANDLING

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

### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame.  
Store at 2-8°C

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## 8 - Exposure Controls / Personal Protection

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### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

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## 9 - Physical and Chemical Properties

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### Appearance

Physical State: Clear liquid  
Color: Colorless

Property	Value	At Temperature or Pressure
pH	N/A	
MP/MP Range	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	34 mmHg	100 °C
Partition Coefficient	N/A	
Viscosity	2.5 Pas	20 °C
Vapor Density	4.9 g/l	
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	25 mN/m	20 °C
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	Other Solvents: BENZENE, ETHYL ETHER ETHYL ALCOHOL	

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## 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Conditions to Avoid: May polymerize on exposure to light.

Materials to Avoid: Strong oxidizing agents, Strong acids, Strong bases, Peroxides.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## 11 - Toxicological Information

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RTECS NUMBER: OZ4375000

### ACUTE TOXICITY

LD50

Oral

Rat

290 mg/kg

LD50

Oral

Rat

597 mg/kg

LD50

Oral

Mouse

390 mg/kg

LD50

Skin

Rabbit

450 UL/KG

LD50

Oral

Guinea pig

697 mg/kg

### IRRITATION DATA

Skin

Rabbit

0.5 ml

24H

Remarks: Severe irritation effect

Eyes

Rabbit

0.1 ml

Remarks: Moderate irritation effect

### SENSITIZATION

Skin: May cause allergic skin reaction.

### SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. 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: Harmful if absorbed through skin.  
Eye Contact: Causes eye irritation.  
Inhalation: Harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Material is irritating to mucous membranes and upper respiratory tract.  
Ingestion: Harmful if swallowed.

#### TARGET ORGAN INFORMATION

Kidneys. Central nervous system.

#### CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

#### CHRONIC EXPOSURE - MUTAGEN

Rat  
300 MG/KG  
Intraperitoneal  
Cytogenetic analysis

Hamster  
900 UG/L  
Cell Type: Embryo  
Morphological transformation.

Hamster  
78 UMOL/L  
Cell Type: lung  
Sister chromatid exchange

Hamster  
200 UMOL/L  
Cell Type: lung  
Mutation in mammalian somatic cells.

#### CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat  
Dose: 110 MG/KG  
Route of Application: Oral  
Exposure Time: (5-15D PREG)  
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).  
Effects on Newborn: Stillbirth.

Species: Rabbit  
Dose: 50 PPM/6H  
Route of Application: Inhalation  
Exposure Time: (7-19D PREG)  
Result: Maternal Effects: Other effects.

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No data available.

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### 13 - Disposal Considerations

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#### 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.

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### 14 - Transport Information

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#### RID/ADR

UN#: 2810  
Class: 6.1  
PG: III  
Proper Shipping Name: Toxic liquid, organic, n.o.s.

#### IMDG

UN#: 2810  
Class: 6.1  
PG: III  
Proper Shipping Name: Toxic liquid, organic, n.o.s.  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Technical Name: Required

#### IATA

UN#: 2810  
Class: 6.1  
PG: III  
Proper Shipping Name: Toxic liquid, organic, n.o.s.  
Inhalation Packing Group I: No  
Technical Name: Required

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### 15 - Regulatory Information

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#### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: T  
Toxic.

R-PHRASES: 45-60-20/21/22-36/38-43

May cause cancer. May impair fertility. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact.

S-PHRASES: 53-26-36/37-45

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### COUNTRY SPECIFIC INFORMATION

##### Germany

WGK: 3  
Self-Classification

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### 16 - Other Information

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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 2010 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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