

## MATERIAL SAFETY DATA SHEET

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Version 1.3

## Section 1 - Product and Company Information

Product Name TRICHLORMETHIAZIDE  
Product Number T1016  
Brand SIGMA

Company Sigma-Aldrich Canada, Ltd  
Street Address 2149 Winston Park Drive  
City, State, Zip, Country Oakville ON L6H 6J8 CA  
Technical Phone: 9058299500  
Emergency Phone: 800-424-9300  
Fax: 9058299292

## Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313 No
TRICHLORMETHIAZIDE	133-67-5	No

Formula C8H8Cl3N3O4S2  
Synonyms Achletin \* Anistadin \* Aponorin \* Carvacron \*  
6-Chloro-3-(dichloromethyl)-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide \*  
6-Chloro-3-(dichloromethyl)3,4-dihydro-7-sulfamyl-1,2,4-benzothiadiazine-1,1-dioxide \*  
3-Dichloromethyl-6-chloro-7-sulfamoyl-3,4-dihydro-1,2,4-benzothiadiazine-1,1-dioxide \*  
3-Dichloromethyl-6-chloro-7-sulfamyl-3,4-dihydro-1,2,4-benzothiadiazine 1,1-dioxide \* Diurese \*  
Esmarin \* Eurinol \* Fluitran \* Flutra \* Gangesol \* Hydrotrichlorothiazide \* Intromene \* Kubacron \*  
Metahydrin \* Nakva \* Naqua \* Tachionin \*  
Tolcasone \* Trichlormetazid \* Trichlormethiazide \* Trichloromethiadiazide \* Trichloromethiazide \*  
Triclordiuride \* Triclormetiazide (Italian) \*  
Triflumen

RTECS Number: DK8925000

## Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

Harmful.

May cause sensitization by inhalation and skin contact.

Target organ(s): Kidneys. Photosensitizer.

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

## ORAL EXPOSURE

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

#### INHALATION EXPOSURE

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

#### DERMAL EXPOSURE

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

#### EYE EXPOSURE

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.

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#### Section 5 - Fire Fighting Measures

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##### FLASH POINT

N/A

##### AUTOIGNITION TEMP

N/A

##### FLAMMABILITY

N/A

##### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

##### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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#### Section 6 - Accidental Release Measures

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##### 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.

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#### Section 7 - Handling and Storage

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#### Section 8 - Exposure Controls / PPE

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##### ENGINEERING CONTROLS

Use only in a chemical fume hood.

##### PERSONAL PROTECTIVE EQUIPMENT

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

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#### Section 9 - Physical/Chemical Properties

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Appearance

Physical State: Solid

Property	Value	At Temperature or Pressure
Molecular Weight	380.7 AMU	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion Limits	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

N/A = not available

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## Section 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides, Hydrogen chloride gas.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## Section 11 - Toxicological Information

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### ROUTE OF EXPOSURE

Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

### SENSITIZATION

Sensitization: May cause allergic reaction. Photosensitizer.

### TARGET ORGAN(S) OR SYSTEM(S)

Kidneys.

### SIGNS AND SYMPTOMS OF EXPOSURE

Other symptoms may include thirst, anorexia, muscle spasms, and weakness. Exposure to high concentrations can depress CNS function. Exposure can cause: Dermatitis. Nausea, dizziness, and headache. Stomach pains, vomiting, diarrhea.

## TOXICITY DATA

Oral  
Rat  
5600 mg/kg  
LD50

Intravenous  
Rat  
920 MG/KG  
LD50

Oral  
Mouse  
2600 mg/kg  
LD50

Intraperitoneal  
Mouse  
540 MG/KG  
LD50

Intravenous  
Mouse  
750 MG/KG  
LD50

## CHRONIC EXPOSURE - MUTAGEN

Species: Hamster  
Dose: 750 MG/L  
Cell Type: fibroblast  
Mutation test: Cytogenetic analysis

Species: Hamster  
Dose: 560 MG/L  
Cell Type: lung  
Mutation test: Cytogenetic analysis

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## Section 12 - Ecological Information

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No data available.

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## Section 13 - Disposal Considerations

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### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

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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## Section 14 - Transport Information

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### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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## Section 15 - Regulatory Information

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### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 42/43

Risk Statements: May cause sensitization by inhalation and skin contact.

S: 36

Safety Statements: Wear suitable protective clothing.

### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Harmful.

Risk Statements: May cause sensitization by inhalation and skin contact.

Safety Statements: Wear suitable protective clothing.

US Statements: Target organ(s): Kidneys. Photosensitizer.

### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: Yes

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## Section 16 - Other Information

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### DISCLAIMER

For R&D use only. Not for drug, household or other uses.

### WARRANTY

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