



# SAFETY DATA SHEET

Preparation Date: 09/16/2019 Revision date 09/16/2019 Revision Number: G1

## 1. IDENTIFICATION

**Product identifier** 

Product code: D1586

Product Name: DICHLORAMINE T

Other means of identification

**Synonyms:** N,N-dichloro-4-methylbenzenesulfonamide

N,N-Dichloro-p-toluenesulfonamide

Benzenesulfonamide, N,N-dichloro-4-methyl-

Benzyl p-sulfondichloramide p-Toluenesulfone dichloramide N,N-Dichlorotoluene-4-sulphonamide

CAS #: 473-34-7
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

<u>Supplier:</u> Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 1

#### Label elements

Danger

**Hazard statements** 

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Causes skin irritation Causes serious eye irritation May cause respiratory irritation May cause fire or explosion; strong oxidizer



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep/Store away from clothing and other combustible materials

Take any precaution to avoid mixing with combustibles

Wear fire/flame resistant/retardant clothing

### **Precautionary Statements - Response**

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. In case of fire: Use CO2, dry chemical, or foam to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical attention

IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Dichloramine T	473-34-7	100

## 4. FIRST AID MEASURES

#### First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

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1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Causes skin irritation

Causes serious eye irritation May cause respiratory irritation

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Water. CO2 may be of no value in extinguishing fires

involving oxidizers and may only provide limited control.

Unsuitable Extinguishing Media: Dry chemical. Foam. Halons.

Specific hazards arising from the chemical

**Hazardous combustion products**Carbon monoxide. Carbon dioxide (CO2). hydrogen

chloride gas. Sulfur oxides. Nitrogen oxides (NOx).

Specific hazards Oxidizer. Keep away from combustible materials (wood,

paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or

when heated.

Special Protective Actions for Firefighters

Specific Methods: For large fires, flood fire area with water from a distance

Cool affected containers with flooding quantities of water

Do not get water inside containers DO NOT use

combustible materials such as sawdust

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear

personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled

material. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

**Methods for cleaning up**Sweep up and shovel. Use appropriate tools to put the spilled material in a

suitable chemical waste disposal container. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated

surface thoroughly.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not ingest. Keep away from heat and sources of ignition. When using do not smoke. Keep away from combustible material. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Sensitive to light. Store in light-resistant containers. Air sensitive. Moisture sensitive. Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials. Store under inert gas. Store at room temperature in the original container. Store away from incompatible materials.

# **Incompatible Materials:**

Strong oxidizing agents Reducing agents Strong acids Combustible materials

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# National occupational exposure limits

# **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Dichloramine T	473-34-7	None	None	None	None

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#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Dichloramine T	473-34-7	None	None	None	None

### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Dichloramine T	473-34-7	None	None

## **Appropriate engineering controls**

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

# Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

Eye protection: Goggles or Safety glasses with side-shields.

Chemical resistant apron Skin and body protection:

Gloves

Long sleeved clothing

Wear respirator with dust filter. Be sure to use an approved/certified respirator or Respiratory protection:

equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Crystalline powder. No information available. Solid

Odor: **Taste Formula** No information available. No information available. C7H7CI2NO2S

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F): 240.10 No information available no data available

Flash Point Tested according to: Autoignition Temperature (°C/°F): **Lower Explosion Limit (%):** 

Not available No information available No information available

**Upper Explosion Limit (%):** Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 79-83°C/ 174-181°F No information available

**Bulk density:** 

Boiling point/range(°C/°F): Density (g/cm3): No information available No information available No information available

Vapor pressure @ 20°C (kPa): Specific gravity: pН

No information available No information available No information available

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No information available
No information available

Odor threshold (ppm): Partition coefficient
No information available (n-octanol/water):

No information available

Viscosity:

No information available

Miscibility: Solubility:

No information available Insoluble in water

Soluble in Alcohol Soluble in Chloroform Soluble in glacial Acetic acid Slightly soluble in Petroleum Ether

# 10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

Stability: Sensitive to air. Moisture Sensitive. Sensitive to light. Stable under recommended storage

conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Exposure to air. Exposure to moisture. Exposure to light. Ignition sources.

Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Reducing agents Strong acids

Combustible materials

Hazardous decomposition

products:

Nitrogen oxides (NOx). Carbon oxides. Sulfur oxides. Hydrogen chloride.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Principal Routes of Exposure:** 

Skin. Eyes. Inhalation.

### **Acute Toxicity**

### **Component Information**

Dichloramine T
CAS No 473-34-7

**LD50/oral/rat** = No information available **LD50/oral/mouse** = No information available

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LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = No information available

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

**Skin Contact:** Causes skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** May cause respiratory irritation.

**Ingestion** May cause digestive (gastointestinal) tract irritation.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Dichloramine T	473-34-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

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ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure respiratory system.
STOT - repeated exposure No information available.
Target Organs: respiratory system.
No information available.

## 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Dichloramine T	473-34-7	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class 5.1

Subsidiary Class No information available

Packing group: 1 Emergency Response Guide 140

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Number

Marine Pollutant No data available DOT RQ (lbs): No information available

Special Provisions 62, IB5, IP1

Symbol(s): No information available

**Description:** UN1479, OXIDIZING SOLID, N.O.S. (Dichloramine T), 5.1, I

TDG (Canada)

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class 5.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN1479, OXIDIZING SOLID, N.O.S. (Dichloramine T), 5.1, I

ADR

UN Number UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Transport hazard class(es) 5.1 Packing group

Subsidiary Risk: No information available

Special Provisions 274

**Description:** UN1479, OXIDIZING SOLID, N.O.S. (Dichloramine T), 5.1, I

**IMDG** 

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 274, 900

**Description** UN1479, OXIDIZING SOLID, N.O.S. (Dichloramine T), 5.1, I

RID

UN Number UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Transport hazard class(es) 5.1

Subsidiary Risk: No information available

Packing group | Special Provisions 274

**Description:** UN1479, OXIDIZING SOLID, N.O.S. (Dichloramine T), 5.1, I

ICAO (air)

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class 5.1

Subsidiary Risk: No information available

Packing Group:

Description: UN1479, OXIDIZING SOLID, N.O.S. (Dichloramine T), 5.1, I

Special Provisions A3

IATA

UN Number UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Transport hazard class(es) 5.1

Subsidiary Risk: No information available

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Packing group | Precautionary Statements - 5L

Response

Special Provisions No information available

**Description:** UN1479, OXIDIZING SOLID, N.O.S. (Dichloramine T), 5.1, I

# 15. REGULATORY INFORMATION

## International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Dichloramine T	473-34-7	PresentINACT IVE	Not present	Not present	Not present	Not listed	Not listed	Present 207-462-4

## **U.S. Regulations**

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	<b>Developmental Toxicity</b>	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Dichloramine T	473-34-7	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Dichloramine T	473-34-7	None	None	None	None	None

### U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Dichloramine T	473-34-7	Not Applicable	Not Applicable

#### Canada

### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

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## DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Dichloramine T	473-34-7	Not Listed	Present

Component	CAS No	CEPA Schedule I - Toxic Substances	
Dichloramine T	473-34-7	Not listed	
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject	
		to Mandatory Reporting	
Dichloramine T	473-34-7	Not listed	

### **EU Classification**

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Dichloramine T	473-34-7	

### EU - CLP (1272/2008)

## R-phrase(s)

R 8 - Contact with combustible material may cause fire.

R36 - Irritating to eyes

R38 - Irritating to skin

# S -phrase(s)

S 7 - Keep container tightly closed.

S17 - Keep away from combustible material

S36 - Wear suitable protective clothing

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

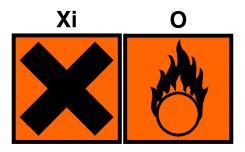
Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Dichloramine T	473-34-7		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

## Indication of danger:

Xi - Irritant

O - Oxidising.



# **16. OTHER INFORMATION**

Preparation Date:09/16/2019Revision date09/16/2019Prepared by:Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This

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Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

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