

Category 3

Category 4

Category 1

Category 3

Category 1 B

#### Classified as hazardous according to criteria of EPA New Zealand

## **Section 1 - Identification**

Product Name (2,4-Dichlorophenyl)-methanesulfonyl chloride

Product Code MAY00259DE, MAY00259ZZ

Address Thermo Fisher Scientific New Zealand Ltd

244 Bush Road, Albany, Auckland, New Zealand

Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Telephone / Fax Numbers Tel: 09 980 6700

Fax: 09 980 6788

E-mail address NZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

## Section 2 - Hazard(s) Identification

#### Classification under Work Safe New Zealand

6.1C - Substances that are acutely toxic (Oral)

8.2B - Substances that are corrosive to dermal tissue

8.3A - Substances that are corrosive to ocular tissue

6.1D - Substances that are acutely toxic (Inhalation)

6.1E - Substances that are acutely toxic (Inhalation)

### Classified as hazardous according to criteria of EPA New Zealand

#### **GHS Classification**

#### Physical hazards

Based on available data, the classification criteria are not met

### Health hazards

Acute Oral Toxicity
Acute Inhalation Toxicity - Dusts and Mists
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Specific target organ toxicity - (single exposure)

**Environmental hazards** 

Based on available data, the classification criteria are not met

#### **Label Elements**

MAYMAY00259 Version 1 11-Aug-2020 Page 1/8



Signal Word

Danger

#### **Hazard Statements**

H301 - Toxic if swallowed

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

#### **Precautionary Statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P363 - Wash contaminated clothing before reuse

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other information

Contact with water liberates toxic gas

# Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
(2,4-Dichlorophenyl)-methanesulfonyl chloride	88691-50-3	97

### **Section 4 - First Aid Measures**

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

MAYMAY00259 Version 1 11-Aug-2020 Page 2 / 8

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

and danger of perforation

Notes to Physician Treat symptomatically.

## **Section 5 - Fire Fighting Measures**

#### **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

#### Extinguishing media which must not be used for safety reasons

Contact with water liberates toxic gas.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides, Chlorine, Hydrogen chloride gas.

#### **Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes. Contact with water liberates toxic gas.

#### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## **Section 6 - Accidental Release Measures**

#### **Emergency procedures**

Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation.

#### **Environmental Precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Do not expose spill to water. Avoid dust formation.

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

## **Section 7 - Handling and Storage**

#### **Precautions for Safe Handling**

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not allow contact with water. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust formation.

### Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from water or moist air.

MAYMAY00259 Version 1 11-Aug-2020 Page 3/8

\_\_\_\_\_

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

## **Section 8 - Exposure Controls and Personal Protection**

#### **Exposure limits**

The product does not contain any hazardous materials with occupational exposure limits established.

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### **Engineering Measures**

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Personal protective equipment

Eye Protection Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial

applications)

Hand Protection Protective gloves

Γ	Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
ı	Disposable gloves.	See manufacturers	-	AS/NZS 2161	(minimum requirement)
1		recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

## **Section 9 - Physical and Chemical Properties**

### Information on basic physical and chemical properties

AppearanceWhitePhysical StateSolid

Odor No information available No data available

pH No information available

Melting Point/Range 83 - 85 °C / 181.4 - 185 °F

Softening Point No data available
Boiling Point/Range No information available

Flash Point No information available Method - No information available

MAYMAY00259 Version 1 11-Aug-2020 Page 4/8

#### (2,4-Dichlorophenyl)-methanesulfon yl chloride

### SAFETY DATA SHEET

**Evaporation Rate** Not applicable Solid

No information available Flammability (solid, gas) No data available

**Explosion Limits** 

No data available **Vapor Pressure Vapor Density** Not applicable

Specific Gravity / Density No data available **Bulk Density** No data available Water Solubility

No information available No information available Solubility in other solvents

Partition Coefficient (n-octanol/water)

**Autoignition Temperature** No data available **Decomposition Temperature** No data available **Viscosity** Not applicable

**Explosive Properties** No information available **Oxidizing Properties** No information available

Other information

Molecular Formula C7 H5 Cl3 O2 S

**Molecular Weight** 259.54

# **Section 10 - Stability and Reactivity**

Reactivity Yes

Water reactive. Stability

**Conditions to Avoid** Incompatible products, Excess heat, Avoid dust formation, Exposure to moist air or water,

Solid

Solid

Exposure to moisture.

**Incompatible Materials** Strong oxidizing agents, Bases, Amines, Water, Alcohols.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO2). Sulfur oxides. Chlorine. Hydrogen chloride

**Hazardous Polymerization** Hazardous polymerization does not occur.

## **Section 11 - Toxicological Information**

#### Information on Toxicological Effects

#### **Product Information**

(a) acute toxicity;

Oral Category 3 No data available Dermal Inhalation Category 4

(b) skin corrosion/irritation; Category 1 B

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available No data available Skin

**MAYMAY00259** Version 1 Page 5/8 11-Aug-2020

No data available (e) germ cell mutagenicity;

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

Category 3 (h) STOT-single exposure;

Results / Target organs Respiratory system

(i) STOT-repeated exposure; No data available

No information available. **Target Organs** 

Not applicable (j) aspiration hazard;

Solid

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

## **Section 12 - Ecological Information**

**Ecotoxicity effects** Do not empty into drains.

Persistence and Degradability No information available

No information available **Bioaccumulative Potential** 

**Mobility** No information available.

**Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential** 

This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

# **Section 13 - Disposal Considerations**

Waste from Residues/Unused

**Products** 

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point.

Other Information Disposal agencies or waste contractors must comply with the New Zealand Hazardous

Substances (Disposal) Regulations . Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not flush to

sewer. Large amounts will affect pH and harm aquatic organisms.

# **Section 14 - Transport Information**

#### IMDG/IMO

MAYMAY00259 Version 1 11-Aug-2020 Page 6/8

UN-No UN2923

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

NZS 5433:2012

UN-No UN2923

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group

<u>IATA</u>

UN-No UN2923

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Hazard Class 8
Subsidiary Hazard Class 6.1
Packing Group III

Environmental hazards No hazards identified

**Special Precautions**No special precautions required

Additional information None known

# **Section 15 - Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories X = listed

**Prohibition or notification/licensing** Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

### **Section 16 - Other Information**

#### This safety data sheet complies with the requirements of WorkSafe New Zealand Regulations

#### Legend

AICS - Australian Inventory of Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

NZS 5433:2012 - Transport of Dangerous Goods on Land

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical

Substances/EU List of Notified Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

Predicted No Effect Concentration (PNEC)

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**ADG** Australian Code for the Transport of Dangerous Goods by Road and Rail

**OECD** - Organisation for Economic Co-operation and Development

MAYMAY00259 Version 1 11-Aug-2020 Page 7 / 8

# (2,4-Dichlorophenyl)-methanesulfon yl chloride

### SAFETY DATA SHEET

LD50 - Lethal Dose 50%

**EC50** - Effective Concentration 50% **WEL** - Workplace Exposure Limit

DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC (volatile organic compound)

LC50 - Lethal Concentration 50%
ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment
NOEC - No Observed Effect Concentration

**BCF** - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

#### Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date 11-Aug-2020 Revision Summary Initial Release

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of Safety Data Sheet**

MAYMAY00259 Version 1 11-Aug-2020 Page 8/8