

SAFETY DATA SHEET

Creation Date 08-Sep-2009 Revision Date 10-Feb-2015 Revision Number 1

1. Identification

Product Name 2,4-Dimethyl-3-furoyl chloride

Cat No.: CC65802DE; CC65802DA; CC65802CB; CC65802ZZ

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Emergency Telephone Number

 Maybridge
 For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

 Thermo Fisher Scientific
 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99

 Bishop Meadow Rd
 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

Loughborough, Leicestershire, Great Britain

LE115RG

Tel: 01509 231166

Website: www.maybridge.com

2. Hazard(s) identification

Classification

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

Acute oral toxicity

Acute Inhalation Toxicity - Vapors

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

Harmful if swallowed Causes severe skin burns and eye damage Harmful if inhaled May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eve protection/face protection

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

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

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eves

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

Ingestion

Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Contact with water liberates toxic gas

3. Composition / information on ingredients

Component	CAS-No	Weight %
2,4-Dimethyl-3-furoyl chloride	15139-39-6	90

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

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

attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a

respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/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

2,4-Dimethyl-3-furoyl chloride

Notes to Physician Treat symptomatically

Fire-fighting measures

CO₂, dry chemical, dry sand, alcohol-resistant foam. Suitable Extinguishing Media

DO NOT USE WATER **Unsuitable Extinguishing Media**

Flash Point No information available Method -No information available

Autoignition Temperature

Explosion Limits

No information available

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Water reactive. Contact with water liberates toxic gas.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Hydrogen chloride gas Chlorine

Protective Equipment and Precautions for Firefighters

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

NFPA

Health	Flammability	Instability	Physical hazards
3	1	2	W

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Keep people away from

and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

information.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Do Up

not expose spill to water.

7. Handling and s	storage
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Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not get in

eyes, on skin, or on clothing. Do not allow contact with water. Do not breathe vapors/dust.

Do not ingest.

Storage Keep away from water. Keep containers tightly closed in a dry, cool and well-ventilated

place. Corrosives area. Keep refrigerated.

8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines**

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.

Personal Protective Equipment

2,4-Dimethyl-3-furoyl chloride

Eve/face ProtectionWear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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

9. Physical and chemical properties

Physical State Liquid Appearance Colorless

Odor No information available
Odor Threshold No information available
pH No information available
No information available

Melting Point/RangeNo data availableBoiling Point/RangeNo information availableFlash PointNo information availableEvaporation RateNo information availableFlammability (solid,gas)No information available

Flammability or explosive limits

Upper No data available
Lower No data available
Apper Pressure No information available

Vapor PressureNo information availableVapor DensityNo information availableRelative DensityNo information availableSolubilityNo information availablePartition coefficient; n-octanol/waterNo data available

Autoignition Temperature

Decomposition Temperature

Viscosity

No information available
No information available
No information available

Molecular Formula C7 H7 Cl O2 Molecular Weight 158.58

10. Stability and reactivity

Reactive Hazard Yes

Stability Water reactive.

Conditions to Avoid Incompatible products. Excess heat. Exposure to moist air or water. Exposure to moisture.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases, Amines, Alcohols, Strong reducing

agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas, Chlorine

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsContact with water liberates toxic gas.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg.

Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50 Category 4. ATE = 10 - 20 mg/l.

Component Information

Toxicologically Synergistic

No information available

Products

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

Irritation Causes burns by all exposure routes

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
2,4-Dimethyl-3-furoyl chloride	15139-39-6	Not listed				

No information available **Mutagenic Effects**

No information available. **Reproductive Effects**

No information available. **Developmental Effects**

No information available. **Teratogenicity**

STOT - single exposure Respiratory system None known STOT - repeated exposure

Aspiration hazard No information available

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

No information available **Endocrine Disruptor Information**

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Bioaccumulation/ Accumulation No information available No information available.

No information available. **Mobility**

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3094

CORROSIVE LIQUID, WATER-REACTIVE, N.O.S. **Proper Shipping Name**

Proper technical name 2,4-Dimethyl-3-furoyl chloride

Hazard Class Subsidiary Hazard Class 4.3 **Packing Group**

TDG

2,4-Dimethyl-3-furoyl chloride

UN-No UN3094

Proper Shipping Name CORROSIVE LIQUID, WATER-REACTIVE, N.O.S.

Hazard Class 8
Subsidiary Hazard Class 4.3
Packing Group II

IATA

UN-No UN3265

Proper Shipping Name Corrosive liquid, acidic, organic, n.o.s

Hazard Class 8
Packing Group ||

IMDG/IMO

UN-No UN3265

Proper Shipping Name Corrosive liquid, acidic, organic, n.o.s

Hazard Class 8
Packing Group | |

15. Regulatory information

International Inventories

Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLANot applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

Revision Date 10-Feb-2015

U.S. Department of Transportation

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class E Corrosive material

D1B Toxic materials

F Dangerously reactive material



Other information

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS