

# **SAFETY DATA SHEET**

Creation Date 23-Jun-2008 Revision Date 10-Feb-2015 Revision Number 1

# 1. Identification

Product Name 1-Benzofuran-2-sulfonyl chloride

Cat No.: CC06603CB; CC06603DA; CC06603DE; CC06603ZZ

**CAS-No** 17070-58-5

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use

### Details of the supplier of the safety data sheet

Company

Fisher Scientific Maybridge
One Reagent Lane
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

**Emergency Telephone Number** 

For information US call: 001-800-ACROS-01

/ Europe call: +32 14 57 52 11

Emergency Number **US:**001-201-796-7100 /

Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

# 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 dermal toxicity

Acute Inhalation Toxicity - Dusts and Mists

Skin Corrosion/irritation

Category 4

Category 4

Category 1

Category 1

Category 1

## Label Elements

### Signal Word

Danger

#### **Hazard Statements**

Harmful if swallowed

Harmful in contact with skin

Causes severe skin burns and eye damage

#### Harmful if inhaled



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

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

Wash contaminated clothing before reuse

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

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

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 %		
1-Benzofuran-2-sulfonyl chloride	17070-58-5	100		

## 4. First-aid measures

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

attendance.

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.

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

clothes and shoes. Call a physician immediately.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Call a physician or Poison Control

Center immediately. 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.

**Ingestion** Immediate medical attention is required. Do not induce vomiting. Never give anything by

mouth to an unconscious person. Drink plenty of water.

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

# 5. Fire-fighting measures

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

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

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**

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

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Sulfur oxides Hydrogen chloride

#### **Protective Equipment and Precautions for Firefighters**

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.

<u>NFPA</u>

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### 6. Accidental release measures

**Personal Precautions** 

Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** 

Do not allow material to contaminate ground water system. Should not be released into the environment. See Section 12 for additional ecological information.

**Methods for Containment and Clean** Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for **Up** disposal. Do not expose spill to water.

	7. Handling and storage
Handling	Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only under a chemical fume hood. Wear personal protective equipment. Do not allow contact with water.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from water.  To maintain product quality. Store under an inert atmosphere.

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations **Engineering Measures** 

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

Tightly fitting safety goggles. Face-shield. **Eye/face Protection** 

Skin and body protection Long sleeved clothing.

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

> 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.

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

# 9. Physical and chemical properties

Solid **Physical State** 

**Appearance** Yellow - Orange

Odor No information available **Odor Threshold** No information available No information available рH

77 - 81 °C / 170.6 - 177.8 °F Melting Point/Range

**Boiling Point/Range** No information available **Flash Point** No information available

**Evaporation Rate** Not applicable

No information available Flammability (solid,gas)

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available **Vapor Density** Not applicable

**Specific Gravity** No information available

Solubility Hvdrolvses Partition coefficient: n-octanol/water No data available

**Autoignition Temperature** 

**Decomposition Temperature** No information available

**Viscosity** Not applicable C8 H5 CI O3 S **Molecular Formula** 

**Molecular Weight** 216.64

# 10. Stability and reactivity

**Reactive Hazard** Yes

Stability Stable under recommended storage conditions. Moisture sensitive.

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

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

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon

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

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

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**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

**Toxicologically Synergistic** No information available

**Products** 

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

Irritation No information available

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
1-Benzofuran-2-sulfon	17070-58-5	Not listed				
vl chloride						

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

**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

**Endocrine Disruptor Information** No information available

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

# 12. Ecological information

**Ecotoxicity** 

Reacts with water so no ecotoxicity data for the substance is available.

Persistence is unlikely based on information available. Persistence and Degradability

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Is not likely mobile in the environment.

### 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

> 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 UN3096

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

Proper technical name 1-Benzofuran-2-sulfonyl chloride

Hazard Class 8
Subsidiary Hazard Class 4.3
Packing Group ||

<u>TDG</u>

UN-No UN3261

Proper Shipping Name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

Hazard Class 8
Packing Group ||

<u>IATA</u>

UN-No UN3261

Proper Shipping Name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

Hazard Class 8
Packing Group

IMDG/IMO

UN-No UN3261

Proper Shipping Name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

Hazard Class 8
Packing Group ||

# 15. Regulatory information

#### **United States of America Inventory**

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags	
1-Benzofuran-2-sulfonyl chloride	17070-58-5	-	<del>-</del>	-	

#### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
1-Benzofuran-2-sulfonyl chloride	17070-58-5	-	-	-	-	-	-	-	-

### U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

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

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U.S. State Right-to-Know

Regulations

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Not applicable

Email: EMSDS.RA@thermofisher.com

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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 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 SDS**