## **4-FLUOROBENZOYL CHLORIDE MSDS**

# CAS No: 403-43-0 MSDS



## **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: 4-Fluorobenzoyl chloride
CAS No	: 403-43-0
Product code	: D0103
Formula	: C7H4CIFO
Chemical structure	

1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. **Relevant identified uses**

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

### 1.2.2. **Uses advised against**

No additional information available

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

Labogens Fine Chem Industries 1st Floor, Above Bank of India, Guru Vihar, Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

### 1.4. **Emergency telephone number**

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

## **SECTION 2: Hazards identification**

### Classification of the substance or mixture 2.1.

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, H314 Category 1B

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC C; R34 Full text of R-phrases: see section 16 Adverse physicochemical, human health and environmental effects No additional information available 2.2. **Label elements** Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS05 Signal word (CLP) : Danger Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage Precautionary statements (CLP) : 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

## 2.3. Other hazards

No additional information available

## 3.1. Substance

Name	Product identifier	%
4-Fluorobenzoyl chloride	(CAS No) 403-43-0	100

Full text of R- and H-phrases: see section 16

**SECTION 4: First aid measures** 

3.2.	Mixture	
Not ap	plicable	

4.1. Description of first aid measures	
First-aid measures after inhalation	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contai	
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation
Hygiene measures	<ul><li>in process area to prevent formation of vapour.</li><li>Wash hands and other exposed areas with mild soap and water before eating,</li></ul>
	drinking or smoking and when leaving work.
7.2. Conditions for safe storage, incl	luding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	
Physical state	: Liquid
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 9 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.32 g/cm³ at 20°C
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2 Other information	

### 9.2. **Other information**

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No additional information available	
10.4. Conditions to avoid	
Moisture.	
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition produ	ucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation Respiratory or skin sensitisation	<ul> <li>Serious eye damage, category 1, implicit</li> <li>Not classified</li> </ul>
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

## **SECTION 12: Ecological information**

**12.1. Toxicity** No additional information available

12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	sment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
UN-No. (ADR)	: 3265
UN-No. (IMDG)	: 3265
UN-No.(IATA) UN-No.(ADN)	: 3265 : 3265
UN-No. (RID)	: 3265
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (IATA) Proper Shipping Name (ADN)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Proper Shipping Name (RID)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Transport document description (ADR)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, (E)
Transport document description (IMDG)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II
Transport document description (IATA)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II
Transport document description (ADN)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II
Transport document description (RID)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8

Danger labels (IMDG)	: 8
ΑΤΑ	•
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
RID	
Transport hazard class(es) (RID)	: 8 : 8
Danger labels (RID)	. 0
	8
14.4. Packing group	
Packing group (ADR)	: 11
<sup>D</sup> acking group (IMDG) Packing group (IATA)	: II : II
Packing group (ADN)	: II
Packing group (RID)	: II
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: C3
Special provision (ADR)	: 274
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2

Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
	: T11
Portable tank and bulk container special	: TP2, TP27
provisions (ADR)	
Tank code (ADR)	:L4BN :AT
Vehicle for tank carriage	
Transport category (ADR)	: 2
(	: 80
Orange plates	80
	3265
Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: В
Transact by and	
- Transport by sea	. 074
	: 274
	: 1L
	: E2
Packing instructions (IMDG)	: P001
·= • p ·································	: IBC02
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: В
Stowage and handling (IMDG)	: SW2
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
	: 0.5L
	: 851
	: 1L
	: 855
	: 30L
	: A3
	: 8L
	. 02
<ul> <li>Inland waterway transport</li> </ul>	
	: C3
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C3
Special provision (RID)	: 274
Limited quantities (RID)	: 1L
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Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T11
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

**SECTION 15: Regulatory information** 

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

## 15.1.1. EU-Regulations

### No REACH Annex XVII restrictions

4-Fluorobenzoyl chloride is not on the REACH Candidate List

4-Fluorobenzoyl chloride is not on the REACH Annex XIV List

## 15.1.2. National regulations

### Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

## Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product

No additional information available

SECTION 16: Other information

## Full text of R-, H- and EUH-phrases:

Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage
R34	Causes burns

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Corrosive

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product