## 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 : O

0 F

### 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

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699

info@lobachemie.com - www.lobachemie.com

### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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)



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

#### **SECTION 3: Composition/information on ingredients**

#### 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

#### 3.2. Mixture

Not applicable

## **SECTION 4: First aid measures**

#### 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.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

#### 4.3. Indication of any immediate medical 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 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 measures**

#### 6.1. Personal precautions, protective 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 containment and cleaning up

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

in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

## 7.2. Conditions for safe storage, including 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

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#### 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 properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Colourless.

Odour : No data available

Odour threshold : No data available

pH : 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

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 reactions

No additional information available

#### 10.4. Conditions to avoid

Moisture.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified 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

## 12.2. Persistence and degradability

No additional information available

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#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

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 / IATA / ADN

#### 14.1. UN number

 UN-No. (ADR)
 : 3265

 UN-No. (IMDG)
 : 3265

 UN-No.(IATA)
 : 3265

 UN-No.(ADN)
 : 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)

: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Proper Shipping Name (ADN)

: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

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

: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II

: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II

: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II

: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II

: 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



#### **IMDG**

Transport hazard class(es) (IMDG) : 8

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Danger labels (IMDG) : 8



#### **IATA**

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
Danger labels (RID) : 8



#### 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : 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

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Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP15
Portable tank and bulk container : T11

instructions (ADR)

Portable tank and bulk container special : TP2, TP27

provisions (ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80

Orange plates

80 3265

Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

### - Transport by sea

Special provision (IMDG) : 274

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T11

Tank special provisions (IMDG) : TP2 TP

Tank special provisions (IMDG) : TP2, TP27

EmS-No. (Fire): F-AEmS-No. (Spillage): S-BStowage category (IMDG): BStowage and handling (IMDG): SW2

#### - Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity : 0.5L

(IATA)

PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provision (IATA) : A3
ERG code (IATA) : 8L

#### - Inland waterway transport

Classification code (ADN) : C3

Special provisions (ADN) : 274

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

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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## Safety Data Sheet

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

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

## **SECTION 15: Regulatory information**

## 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. BlmSchV (Hazardous Incident Ordinance)

Immission Control Act - 12.BImSchV

#### Denmark

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

#### **Chemical safety assessment**

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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Safety Data Sheet

1 C	Correcive
L.	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

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