

## Chemical Safety Data Sheet MSDS / SDS

**3,5-Dimethylbenzoyl chloride**

Revision Date:2026-05-31 Revision Number:1

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

Product name : 3,5-Dimethylbenzoyl chloride  
CBnumber : CB7163991  
CAS : 6613-44-1  
EINECS Number : 413-010-9  
Synonyms : 3,5-dimethylbenzoyl chloride,3,5-dimethyl-benzoylchlorid

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

**Precautionary statements**

P501 Dispose of contents/container to.....  
P406 Store in corrosive resistant/... container with a resistant inner liner.  
P405 Store locked up.  
P390 Absorb spillage to prevent material damage.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P264 Wash skin thoroughly after handling.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P234 Keep only in original container.

**Hazard statements**

H317 May cause an allergic skin reaction

H314 Causes severe skin burns and eye damage

H290 May be corrosive to metals

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## SECTION 3: Composition/information on ingredients

### Substance

Product name	: 3,5-Dimethylbenzoyl chloride
Synonyms	: 3,5-dimethylbenzoyl chloride,3,5-dimethyl-benzoylchlorid
CAS	: 6613-44-1
EC number	: 413-010-9
MF	: C9H9ClO
MW	: 168.62

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## SECTION 4: First aid measures

### First Aid Measures

#### General advice

Immediate medical attention is required.

#### 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. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician or poison control center immediately.

#### Ingestion

Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

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

#### Symptoms

No information available.

### Indication of any immediate medical attention and special treatment needed

#### Note to physicians

Treat symptomatically.

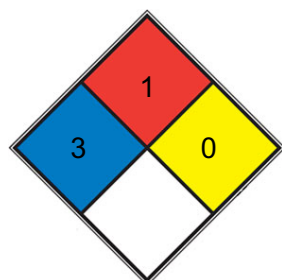
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## SECTION 5: Firefighting measures

## Suitable Extinguishing Media In case of fire chemical decomposition and/or exposure for firefighters (approved or

Use CO<sub>2</sub>, dry chemical, or foam for extinction. can lead to release of irritating and toxic gases and vapors. In the event of fire do not breathe fumes. Use full protective gear.

### NFPA 704



**HEALTH 3** Short exposure could cause serious temporary or moderate residual injury (e.g. [liquid hydrogen](#), [sulfuric acid](#), [calcium hypochlorite](#), hexafluorosilicic acid)

**FIRE 1** Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. [mineral oil](#), ammonia)

**REACT 0** Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N<sub>2</sub>](#))

**SPEC.**  
**HAZ.**

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Environmental precautions

##### Environmental precautions

See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### Methods and material for containment and cleaning up

##### Methods for containment

Prevent further leakage or spillage if safe to do so.

##### Methods for cleaning up

Soak up with inert absorbent material. Dam up. Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water.

## SECTION 7: Handling and storage

## **Precautions for safe handling**

### **Advice on safe handling**

Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Store at room temperature.

#### **Incompatible materials**

Bases. Water. Incompatible with strong acids and bases. Incompatible with oxidizing agents.

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## **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

#### **Exposure Guidelines**

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

#### **Appropriate engineering controls**

##### **Engineering Controls**

Showers

Eyewash stations

Ventilation systems

#### **Individual protection measures, such as personal protective equipment**

##### **Eye/face protection**

Tight sealing safety goggles. Face protection shield.

##### **Skin and Body Protection**

Wear protective gloves and protective clothing.

##### **Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

##### **General Hygiene Considerations**

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

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## **SECTION 9: Physical and chemical properties**

### **Information on basic physicochemical properties**

Physical State	liquid
Appearance	No information available
Odor	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling point	127 °C
Flash point	No information available
Liquid Density	1.14 g/mL
Evaporation rate	No information available
Upper flammability limits	No information available
Lower flammability limit	No information available
Vapor pressure	No information available mmHg
Vapor density	No information available
Specific gravity	No information available
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Density and/or relative density	1.14
Colour	Colorless to Light yellow

## SECTION 10: Stability and reactivity

### Reactivity

Not applicable

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous polymerization

No information available.

### Conditions to avoid

Exposure to air or moisture over prolonged periods.

### Incompatible materials

Bases. Water. Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### **Hazardous Decomposition Products**

Substance will react with water (some violently), releasing corrosive and/or toxic gases and runoff. Carbon oxides. Phosgene. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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## **SECTION 11: Toxicological information**

### **Information on likely routes of exposure**

#### **Inhalation**

Classified based on available data. For more details, see section 2.

#### **Eye contact**

Classified based on available data. For more details, see section 2.

#### **Skin Contact**

Classified based on available data. For more details, see section 2.

#### **Ingestion**

Classified based on available data. For more details, see section 2.

### **Information on toxicological effects**

#### **Symptoms**

Classified based on available data. For more details, see section 2.

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

#### **Chronic Toxicity**

Avoid repeated exposure. Possible risk of irreversible effects.

### **Numerical measures of toxicity - Product Information**

#### **Unknown acute toxicity**

Classified based on available data. For more details, see section 2

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## **SECTION 12: Ecological information**

### **Ecotoxicity**

May cause long lasting harmful effects to aquatic life

100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

### **Persistence and degradability**

No information available.

### **Bioaccumulation**

No information available.

### **Mobility**

No information available.

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## SECTION 13: Disposal considerations

### Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated packaging

Do not reuse container.

### US EPA Waste Number

D002

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## SECTION 14: Transport information

### DOT

#### UN/ID no

UN3265

#### Hazard Class

8

#### Packing Group

III

Corrosive liquid, acidic, organic, n.o.s.

UN3265, Corrosive liquid, acidic, organic, n.o.s. (3,5-Dimethylbenzoyl chloride), 8, III

#### Emergency Response Guide Number

153

### IMDG

#### UN/ID no

UN3265

#### Hazard Class

8

#### Packing Group

III

Corrosive liquid, acidic, organic, n.o.s.

UN3265, Corrosive liquid, acidic, organic, n.o.s. (3,5-Dimethylbenzoyl chloride), 8, III

#### Special Provisions

223, 274

#### EmS-No

F-A, S-B

### IATA

#### UN/ID no

UN3265

**Hazard Class**

8

**Packing Group**

III

Corrosive liquid, acidic, organic, n.o.s.

UN3265, Corrosive liquid, acidic, organic, n.o.s. (3,5-Dimethylbenzoyl chloride), 8, III

**ERG Code**

8L

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## SECTION 15: Regulatory information

### International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) China (IECSC) ENCS (Japan):

X - Listed

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

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
3,5-Dimethylbenzoyl chloride	X	-	X	-	X	X	X	-	-	-

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

**Acute health hazard**

Yes

**Chronic Health Hazard**

Yes

**Fire hazard**

No

**Sudden release of pressure hazard**

No

**Reactive hazard**

No

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

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## **SECTION 16: Other information**

### **Abbreviations and acronyms**

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

### **Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.