

# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**  
**DATE OF ISSUE : 26-08-2019**  
**SUPERSEDES : 01**

**Product Code : 12745**

**Page 1 of 10**

## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name :** BENZOYL CHLORIDE

**Product code :** 12745

**Identification of the product :** Benzoyl Chloride

**CAS No :** 98- 88- 4

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

**Use :** Industrial. For professional use only.

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

**Company identification :** MOLYCHEM

**Office:** 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

**Email :** [info@molychem.net](mailto:info@molychem.net)

**Works:** Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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

**Emergency number :** +91 22 4066 8111 (10:00am - 6:00 pm)

## **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

Serious eye damage/eye irritation, H318

Category 1

Acute toxicity (dermal), H312

Category 4

Acute toxicity (inhal.), H332

Category 4

Acute toxicity (oral), H302

Category 4

Sensitisation — Skin, H317

category 1

**Adverse physicochemical, human health and environmental effects**

No additional information available

### **2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display**  
**Extra classification(s) to display**

**Symbol(s) :** Xn: Harmful

**MOLYCHEM Office:** 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)

**Tel:** +91 22 4066 8111, 2205 7772 . **Fax:** + 91 22 2203 4442. **Email :** [info@molychem.net](mailto:info@molychem.net)

**Works:** Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503

# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code : 12745**

**Page 2 of 10**



**R Phrase(s)** : R34: Cause burns.

**S Phrase(s)** : S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## **Hazard pictograms**



Signal word (CLP) : Danger

Hazard statements (CLP) : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

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. Composition/information on ingredients**

### **3.1. Substance : BENZOYL CHLORIDE**

CAS No : 98-88-4

Substance.

Contains no other components or impurities which will influence the classification of the product.

## **4. First aid measures**

### **4.1. Description of first aid measures**

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Immediately call a POISON CENTER or doctor/physician. Specific measures (see ... on this label).

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**

# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**  
**DATE OF ISSUE : 26-08-2019**  
**SUPERSEDES : 01**

**Product Code : 12745**

**Page 3 of 10**

Wash with plenty of soap and water. Wash contaminated clothing before reuse.  
Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see ... on this label).

First-aid measures after eye contact : Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

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

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

## **4.3. Indication of any immediate medical attention and special treatment needed**

No additional information available

## **5. Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media : Do not use a heavy water stream.

### **5.2. Special hazards arising from the substance or mixture**

No additional information available

### **5.3. Advice for firefighters**

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

## **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.

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**

# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**  
**DATE OF ISSUE : 26-08-2019**  
**SUPERSEDES : 01**

**Product Code : 12745**

**Page 4 of 10**

## **6.2. Environmental precautions**

Avoid release to the environment.

## **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

## **6.4. Reference to other sections**

No additional information available

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Store in a dry place. Keep container tightly closed.

### **7.3. Specific end use(s)**

No additional information available

## **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 face shield

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear appropriate mask

## **9. Physical and chemical properties**

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

**Odour threshold** : No data available

**pH** : 2 at 1 g/l

**Relative evaporation rate (butylacetate=1)** : No data available

**Melting point** : -1 °C

**Freezing point** : No data available

**MOLYCHEM Office:** 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)

**Tel:** +91 22 4066 8111, 2205 7772 . **Fax:** + 91 22 2203 4442. **Email :** [info@molychem.net](mailto:info@molychem.net)

**Works:** Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503

# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**  
**DATE OF ISSUE : 26-08-2019**  
**SUPERSEDES : 01**

**Product Code : 12745**

**Page 5 of 10**

**Boiling point :** 198 °C  
**Flash point :** 72 °C  
**Auto-ignition temperature :** 6000 °C  
**Decomposition temperature :** No data available  
**Flammability (solid, gas) :** No data available  
**Vapour pressure :** 1 mm Hg at 320C  
**Relative vapour density at 20 °C :** 4.88  
**Relative density :** No data available  
**Density :** 1.211 g/cm<sup>3</sup>  
**Solubility :** Water: Decomposed by water  
**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 :** 0.012 - 0.049 vol %

## **9.2. Other information**

No additional information available

## **10. Stability and reactivity**

### **10.1. Reactivity**

Thermal decomposition generates : Corrosive vapours.

### **10.2. Chemical stability**

Stable under normal conditions of use.

### **10.3. Possibility of hazardous reactions**

No additional information available

### **10.4. Conditions to avoid**

Direct sunlight. Overheating. Open flame. Heat. Sparks.

### **10.5. Incompatible materials**

No additional information available

### **10.6. Hazardous decomposition products**

Thermal decomposition generates : Corrosive vapours.

## **11. Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Oral: Harmful if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 2 at 1 g/l

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**

# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**  
**DATE OF ISSUE : 26-08-2019**  
**SUPERSEDES : 01**

**Product Code : 12745**

**Page 6 of 10**

Serious eye damage/irritation : Causes serious eye damage.

pH: 2 at 1 g/l

Respiratory or skin sensitisation : May cause an allergic skin reaction.

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

Potential adverse human health effects and symptoms : Harmful if swallowed. Harmful in contact with skin.

## **12. Ecological information**

### **12.1. Toxicity**

No additional information available

### **12.2. Persistence and degradability**

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 assessment**

No additional information available

### **12.6. Other adverse effects**

No additional information available

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

Product/Packaging disposal

Recommendations : Dispose of contents/container to ...

## **14. Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### **14.1. UN number**

UN-No. (ADR) : 1736

UN-No. (IMDG) : 1736

UN-No.(IATA) : 1736

UN-No.(ADN) : 1736

UN-No. (RID) : 1736

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**

# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code : 12745**

**Page 7 of 10**

## **14.2. UN proper shipping name**

Proper Shipping Name (ADR) : BENZOYL CHLORIDE

Proper Shipping Name (IMDG) : BENZOYL CHLORIDE

Proper Shipping Name (IATA) : BENZOYL CHLORIDE

Proper Shipping Name (ADN) : BENZOYL CHLORIDE

Proper Shipping Name (RID) : BENZOYL CHLORIDE

Transport document description (ADR) : UN 1736 BENZOYL CHLORIDE, 8, II, (E)

Transport document description (IMDG) : UN 1736 BENZOYL CHLORIDE, 8, II

Transport document description (IATA) : UN 1736 BENZOYL CHLORIDE, 8, II

Transport document description (ADN) : UN 1736 BENZOYL CHLORIDE, 8, II

Transport document description (RID) : UN 1736 BENZOYL CHLORIDE, 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

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

Limited quantities (ADR) : 1L

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP15

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**



# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**  
**DATE OF ISSUE : 26-08-2019**  
**SUPERSEDES : 01**

**Product Code : 12745**

**Page 8 of 10**

Portable tank and bulk container  
instructions (ADR): T8  
Portable tank and bulk container special  
provisions (ADR) : TP2  
Tank code (ADR) : L4BN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 80  
Orange plates : Tunnel restriction code (ADR) : E  
EAC code : 4W

## **Transport by sea-**

Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
IBC special provisions (IMDG) : B20  
Tank instructions (IMDG) : T8  
Tank special provisions (IMDG) : TP2, TP13  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : C  
Stowage and handling (IMDG) : SW2  
MFAG-No : 137  
**Air transport** -PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y840  
PCA limited quantity max net quantity  
(IATA) : 0.5L  
PCA packing instructions (IATA) : 851  
PCA max net quantity (IATA) : 1L  
CAO packing instructions (IATA) : 855  
CAO max net quantity (IATA) : 30L  
ERG code (IATA) : 8W

## **Inland waterway transport-**

Classification code (ADN) : C3  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

## **Rail transport-**

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**  
**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**  
**Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,**  
**Kulgaon, Badlapur (E), Dist.-Thane-421 503**



# Material Safety Data Sheet



**BENZOYL CHLORIDE**

**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code : 12745**

**Page 9 of 10**

Classification code (RID) : C3

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15

Portable tank and bulk container instructions (RID) : T8

Portable tank and bulk container special provisions (RID) : TP2

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

## **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

BENZOYL CHLORIDE Extra Pure is not on the REACH Candidate List

BENZOYL CHLORIDE Extra Pure is not on the REACH Annex XIV List

### **15.1.2. National regulations**

#### **Germany**

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 3; WGK No 2118)

12th Ordinance Implementing the Federal

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

#### **Denmark**

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice;

Emergency management

guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product


### **15.2. Chemical safety assessment**

No additional information available

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**

<b>Material Safety Data Sheet</b>	
<b>BENZOYL CHLORIDE</b>	<b>VERSION : 02</b> <b>DATE OF ISSUE : 26-08-2019</b> <b>SUPERSEDES : 01</b>
<b>Product Code : 12745</b>	<b>Page 10 of 10</b>

#### **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

#### **End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

**Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.**

**Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,**

**Kulgaon, Badlapur (E), Dist.-Thane-421 503**

(The statements contained herein are offered for informational purposes only and are based upon technical data that MOLYCHEM believes to be accurate. It is intended for use only by persons having the necessary technical skills and at their own discretion and risk. Since conditions and manner of use are outside our control, we make **NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.**)

**MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA)**

**Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email : [info@molychem.net](mailto:info@molychem.net)**

**Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503**