

**Section 1. Identification****1.1 Product Identifier**

BE1524

Product Name

BENZOYL CHLORIDE pure 100ml.

CAS Number

98-88-4

REACH Registration No

A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

Molecular Formula

 $C_7H_5COCl = 140.57$ **1.2 Relevant identified uses of the substance or mixture & uses advised against**

Uses of Material

Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier**

WF Education Group

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(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Skin corrosion/irritation, category 1B

Acute toxicity, category 4 (oral)

Acute toxicity, category 4 (dermal)

Acute toxicity, category 4 (inhalation)

Skin sensitization, category 1

H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H317: May cause an allergic skin reaction.

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word

Danger

Hazard Pictograms



Hazard Statements Harmful if swallowed, inhaled and in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Precautionary Statements Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

## Section 3. Composition

### 3.1 Substances

| Component        | CAS No. | EEC No.   | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)   |
|------------------|---------|-----------|-----------|----------|---|
| Benzoyl Chloride | 98-88-4 | 202-710-8 |           | 99%      | Skin Corr. 1B, Acute Tox. 4 (O), Acute Tox. 4 (D), Acute Tox. 4 (I), Skin Sens. 1 |

## Section 4. First Aid

### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first aiders Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media Alcohol resistant foam, dry powder, or carbon dioxide. Use water spray to keep fire exposed containers cool.

Unsuitable Media The use of water is not recommended.

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

Hazards May evolve toxic fumes if involved in a fire.

### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

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

|                |  |
|----------------|--|
| Major Spillage | Cover spill with wet earth or sand and transfer to steel container for disposal. Wash area down with copious amounts of water. |
| Minor Spillage | Wash area down with copious amounts of water.  |

### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.  
Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

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

Well ventilated, cool, dry storage .

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component        | CAS No  | Concentration | Workplace Exposure Limits |                         |
|------------------|---------|---------------|---------------------------|-------------------------|
|                  |         |               | Long Term (8hr TWA)       | Short Term 15min period |
| Benzoyl Chloride | 98-88-4 | 99%           | -                         | -                       |

Exposure data source(s) No occupational exposure data currently available.

### 8.2 Exposure controls

|                        |  |
|------------------------|--|
| Respiratory Protection | Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus. |
| Hand Protection        | Use PVC gauntlets.   |
| Eye Protection         | Use tightly fitting chemical splash proof glasses or goggles.  |
| Skin Protection        | If skin contact or contamination of clothing is likely, protective clothing must be worn.  |
| Special Hazards        | No special precautions required.   |

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                       |   |
|-----------------------|---|
| Appearance            | Clear colourless to pale yellow liquid.   |
| Odour                 | Lachrymatory and irritating vapour.   |
| pH                    | Not applicable  |
| Boiling Point         | 198°C   |
| Melting Point         | -6°C  |
| Flash Point           | 93°C (Closed cup)   |
| Upper Flammable Limit | Not applicable  |
| Lower Flammable Limit | Not applicable  |
| Auto Ignition         | Not applicable  |
| Explosive Properties  | Can form explosive mixtures with air particularly in empty uncleaned receptacles. |
| Oxidising Properties  | No.   |
| Vapour Pressure       | Not applicable  |
| Relative Density      | 1.2200  |
| Water Solubility      | Decomposes in water.  |

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|      |                                    |  |
|------|------------------------------------|--|
| 10.1 | Reactivity                         | No data available.   |
| 10.2 | Chemical Stability                 | Stable under normal conditions   |
| 10.3 | Possibility of hazardous reactions | No data available.   |
| 10.4 | Conditions to Avoid                | Hot surfaces and naked flames.   |
| 10.5 | Incompatible Materials             | Strong oxidising agents. Water.  |
| 10.6 | Hazardous Decomposition Products   | Decomposes in contact with water or involve in a fire to produce toxic fumes of hydrochloric acid and Phosgene |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |  |
|----------------------|--|
| Eyes                 | Both the vapour and liquid will, be extremely irritating to eyes and can cause chemical eye burns.   |
| Skin                 | The liquid or concentrated vapour will cause burns. Severe ulceration and scarring may occur in serious cases. Repeated exposure may cause dermatitis.   |
| LD50 Skin            | 790mg/kg Rabbit  |
| Ingestion            | Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing, pain, shock and vomiting.   |
| LD50 Oral            | 2460mg/kg Rat  |
| Inhalation           | Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour will seriously damage the membranes lining the nose, throat and upper respiratory tract. |
| LD50 Inhalation      | 1.45mg/l Rat (4 hours)   |
| TCLo                 | Not available  |
| Carcinogenicity      | Not considered to be a carcinogen.   |
| Mutagenicity         | Not considered to be a mutagen.  |
| Reproductive Effects | None identified.   |

## Section 12. Ecological

|      |                                  |   |
|------|----------------------------------|---|
| 12.1 | Toxicity                         | Do not allow large quantities to enter the environment. |
|      | LC50 Algal                       | Not available   |
|      | LC50 Crustacea                   | Not available   |
|      | LC50 Fish                        | 34.1mg/l Fathead Minnow (4 hours)                       |
| 12.2 | Persistence and degradability    | No data available.                                      |
| 12.3 | Bioaccumulative potential        | No data available.                                      |
| 12.4 | Mobility in soil                 | No data available.                                      |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.                                |
| 12.6 | Other adverse effects            | None known at present.                                  |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |  |
|------------------------|--|
| Disposal Methods       | Dispose of in a licensed incinerator for organic solvents.     |
| Contaminated Packaging | Wash out containers with water. Use a licensed waste disposer. |

## Section 14. Transport Information

|                                   |                                  |
|-----------------------------------|----------------------------------|
| 14.1 UN Number                    | 1736                             |
| 14.2 Proper Shipping Name         | Benzoyl chloride                 |
| 14.3 Transport classes            |                                  |
| UN classification                 | 8                                |
| Subsidiary hazard(s)              | None                             |
| Transport category                | 2                                |
| ADR Hazard ID                     | 80                               |
| Tunnel Restriction Code           | E                                |
| 14.4 Packing Group                | II                               |
| 14.5 Environment hazards          | See section 12.                  |
| 14.6 Special precautions for user | No special precautions required. |
| 14.7 Transport in bulk            | Not transported in bulk.         |



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Acute toxicity, category 4 (inhalation); Skin sensitization, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H302+H312+H332, H314, H317  
Harmful if swallowed, inhaled and in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Precautionary Statements P260, P271, P264, P270, P301+P312, P330  
Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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