

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name:** 2-CHLORO-2-METHYLPROPANE  
**CAS number:** 507-20-0  
**EINECS number:** 208-066-4  
**Product code:** A66990  
**Synonyms:** TERT-BUTYL CHLORIDE

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

**Company name:** Philip Harris Ltd  
2 Gregory Street  
Hyde  
Cheshire  
SK14 4HR  
United Kingdom  
**Tel:** +44 (0)845 1200 506  
**Fax:** +44 (0)161 367 2140  
**Email:** [enquiries@philipharris.co.uk](mailto:enquiries@philipharris.co.uk)

**1.4. Emergency telephone number**

**Emergency tel:** +44 (0) 845 1200 506

**Section 2: Hazards identification****2.1. Classification of the substance or mixture**

**Classification under CLP:** Flam. Liq. 2: H225

**Classification under CHIP:** F: R11

**Most important adverse effects:** Highly flammable liquid and vapour.

**2.2. Label elements****Label elements under CLP:**

**Hazard statements:** H225: Highly flammable liquid and vapour.

**Signal words:** Danger

**Hazard pictograms:** GHS02: Flame



**Precautionary statements:** P210: Keep away from . - No smoking.

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**2.3. Other hazards**

**PBT:** This product is not identified as a PBT substance.

**Section 3: Composition/information on ingredients**

**3.1. Substances**

**Chemical identity:** 2-CHLORO-2-METHYLPROPANE

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

**Skin contact:** May be harmful if absorbed through skin. May cause skin irritation.

**Eye contact:** There may be irritation and pain.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

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

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Alcohol or polymer foam. Water spray. Use water spray to cool containers.

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

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of hydrogen chloride / phosgene.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Eliminate all sources of ignition. Evacuate the area immediately. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Contain spillage, and then collect with an electronically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 13 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid inhalation of vapour or mist. Keep away from sources of ignition - no smoking.  
Take measures to prevent build up of electrostatic charge.

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. Avoid contact with water or humidity.  
Containers which are open must be carefully resealed and kept upright to prevent leakage. Refrigerate before opening, hygroscopic handle and open container with care.

**Suitable packaging:** Must only be kept in original packaging.

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

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Workplace exposure limits:** No data available.

**8.1. DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi purpose combination (US) or type AXBEK (EN14387 respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection use a full face supplied air respirator. Use respirators and components tested & approved under appropriate government standards eg CEN (EU) or NIOSH (US).

**Hand protection:** For splash protection use fluorinated rubber gloves minimum layer thickness 0.7mm.

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Breakthrough time of the glove material < 1 hour. For immersion protection use fluorinated rubber gloved minimum layer thickness 0.7mm. Breakthrough time of the glove material > 8 hours.

**Eye protection:** Face-shield. Safety glasses.

**Skin protection:** Impermeable protective clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** No data available

**Odour:** No data available

**Evaporation rate:** No data available

**Oxidising:** No data available

**Solubility in water:** No data available

**Viscosity:** No data available

**Boiling point/range°C:** 51-52°C

**Melting point/range°C:** -25°C

**Flash point°C:** -23°C

**Vapour pressure:** 3.2

**Relative density:** 0.851g/mL

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** No data available.

### 10.2. Chemical stability

**Chemical stability:** No data available.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No data available.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Flames. Direct sunlight. Extremes of temperature.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong bases.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** No data available.

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**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicity values:** No data available.

**Symptoms / routes of exposure**

**Skin contact:** May be harmful if absorbed through skin. May cause skin irritation.

**Eye contact:** There may be irritation and pain.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May be harmful if inhaled. may cause respiratory tract irritation.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

**12.2. Persistence and degradability**

**Persistence and degradability:** No data available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** No data available.

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

**PBT identification:** This product is not identified as a PBT substance.

**12.6. Other adverse effects**

**Other adverse effects:** No data available.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN1127

**14.2. UN proper shipping name**

**Shipping name:** CHLOROBUTANES

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**14.3. Transport hazard class(es)**

Transport class: 3

**14.4. Packing group**

Packing group: II

**14.5. Environmental hazards**

Environmentally hazardous: No

Marine pollutant: No

**14.6. Special precautions for user**

Tunnel code: D/E

Transport category: 2

**Section 15: Regulatory information**

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

Specific regulations: No data available.

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3:** H225: Highly flammable liquid and vapour.

R11: Highly flammable.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.