

(PREVIEW)

IS : 5311 - 1969

*Indian Standard*  
CODE OF SAFETY FOR  
CARBON TETRACHLORIDE

**0. FOREWORD**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 31 July 1969, after the draft finalized by the Chemical Hazards Sectional Committee had been approved by the Chemical Division Council.

**0.2** Carbon tetrachloride, also known as tetrachloromethane contains 92 percent chlorine by weight. It is miscible with a large number of common organic liquids and is a powerful solvent for benzyl resins, chlorinated rubber, ethyl cellulose, asphalt, bitumen, fats, gums, rosin and waxes. The present principal use is in the manufacture of chlorofluoromethanes used in aerosols and as refrigerants. Its other important applications are in fire extinguishing fluids and in cleaning and degreasing agents. It is also used as a component in formulations used for fumigating grains.

**0.2.1** Its widespread application often without evidence of apparent ill effects, has resulted in under-rating its toxicity. Careful investigations have shown carbon tetrachloride to be one of the most harmful of the common solvents. A complete knowledge and understanding of the hazards of carbon tetrachloride is essential for safe handling in industry. The standard attempts to guide the users in the recognition of the hazards and in the recommended handling procedures.

**0.3** In the preparation of this standard, considerable assistance has been derived from the Safety Data Sheet No. SD-3 for carbon tetrachloride issued by Manufacturing Chemists' Association, USA.

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**1. SCOPE**

**1.1** This standard describes the properties of carbon tetrachloride, the nature of hazards associated with it and the essential information on storage, handling, packing, labelling, waste disposal, cleaning and repair of tanks, selection and training of personnel, personal protective equipment, and first aid.

**1.1.1** This standard does not deal with specifications for design of buildings, chemical engineering plants, storage vessels and various safety equipment.