

(25 °C). In ethanol 530, acetone 800 (both in g/l, 25 °C). Soluble in methanol, isopropyl ether, and petroleum ether. Sparingly soluble in toluene. **Stability** Slowly oxidised in air. Acidic in reaction, and forms salts with aqueous alkalis. **pKa** pK_1 7.6; pK_2 11.6.

COMMERCIALISATION

History Its activity against mildew on cotton fabrics described by P. B. Marsh & M. L. Butler (*Ind. Eng. Chem.*, 1946, **38**, 701). Introduced by Sindar Corp. and by BDH Ltd
Patents US 2334408 **Manufacturer** Pan Britannica; Rhône-Poulenc.

APPLICATIONS

Mode of action Algicide, fungicide, and bactericide with contact action. **Uses** Control of moss, red thread, *Fusarium* patch, and dollar spot in turf; and of moss on paths, walls, roofs, and non-crop land. Fungicidal, bactericidal and algicidal protection of horticultural benches and equipment, textiles, etc. for control of moulds and algae. Also used as an anthelmintic. **Formulation type** EC; SL. **Principal tradename** 'Super Mosstox' (Rhône-Poulenc).

ANALYSIS

Product analysis by colorimetry (*AOAC Methods*, 1984, 36.243-36.247; J. R. Clements & S. H. Newburger, *J. Assoc. Off. Agric. Chem.*, 1954, **37**, 190).

MAMMALIAN TOXICOLOGY

Acute oral LD₅₀ for rats 2690, mice 1000, guinea pigs 1250, dogs 2000 mg/kg. **NOEL** In 90 d feeding trials, rats receiving 2000 mg/kg diet showed no ill-effects.
Toxicity class WHO III; EPA III.

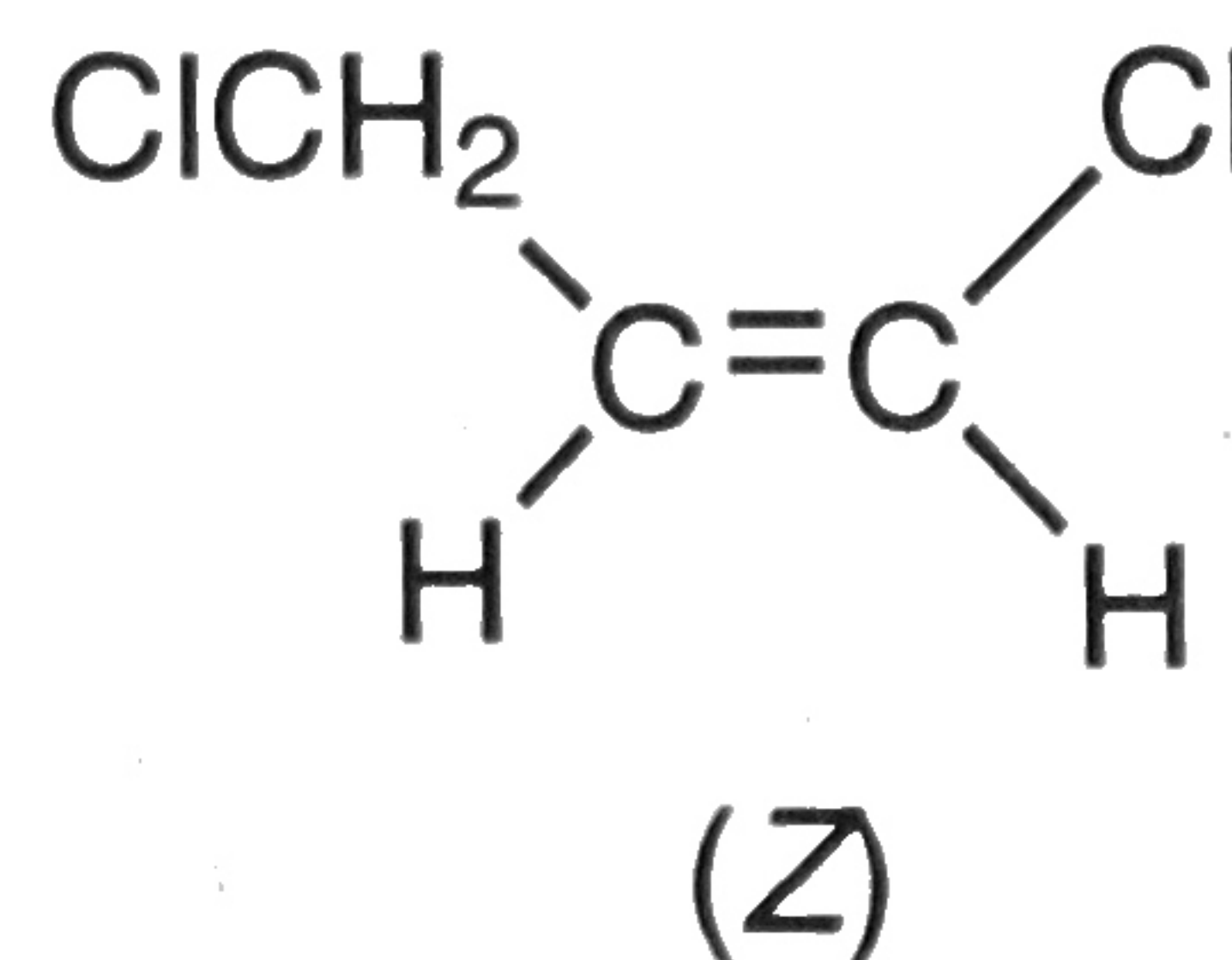
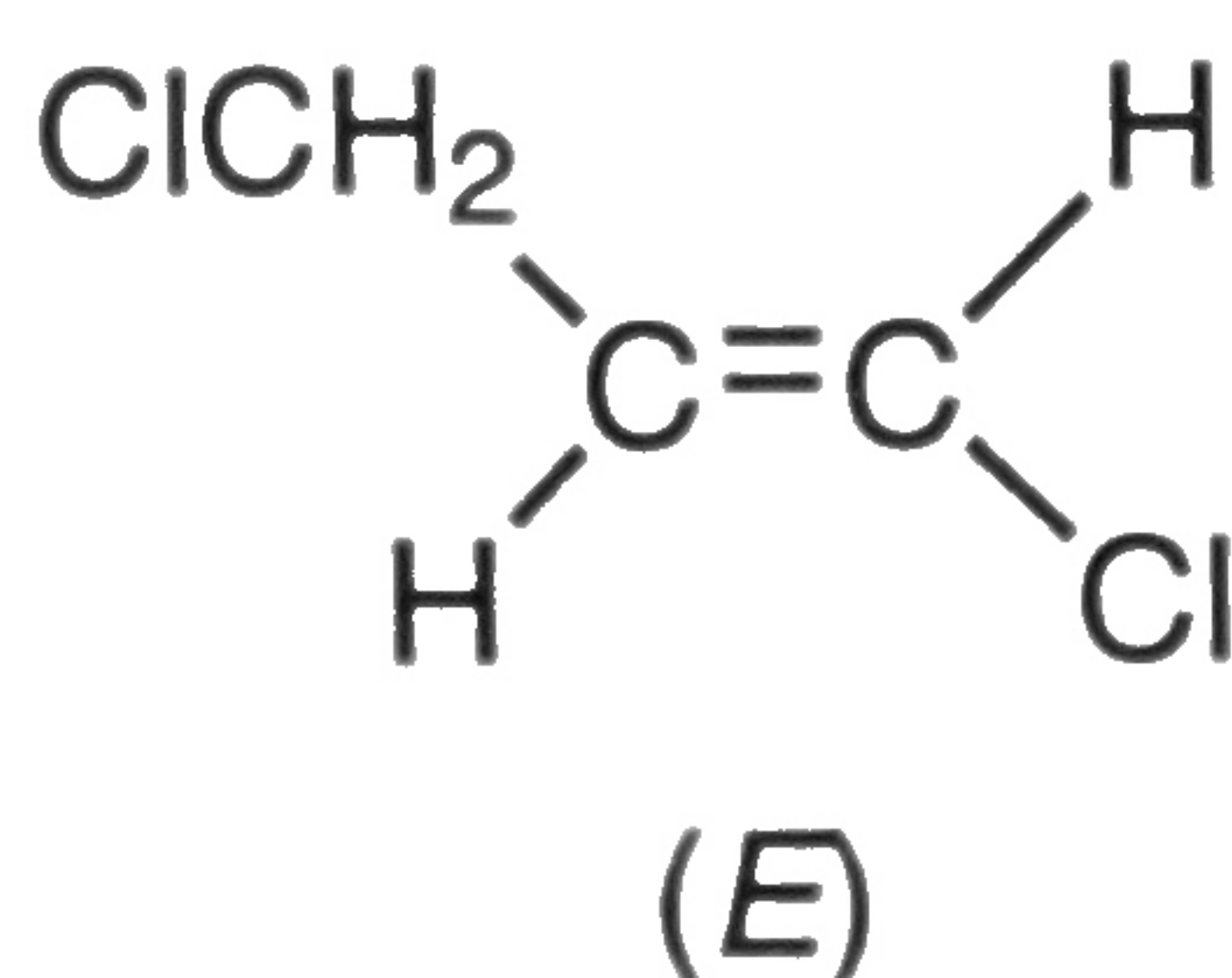
ECOTOXICOLOGY

Fish Toxic to fish.

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1,3-dichloropropene

Nematicide



NOMENCLATURE

Common name 1,3-dichloropropene (BSI, E-ISO accepted in lieu of a common name), dichloro-1,3 propene (F-ISO).

IUPAC name (EZ)-1,3-dichloropropene.

C.A. name 1,3-dichloro-1-propene. **CAS RN** [542-75-6] (E)- + (Z)- isomers; [10061-02-6] (E)- isomer; [10061-01-5] (Z)- isomer.