

## **IS 11782: 2024 Sodium Cyanide, Technical —Specification ( *First Revision* )**

Sodium cyanide is a poisonous compound with the formula NaCN. Sodium cyanide is a Class A poison as defined in *Poison Act*, 1919. It is a white, water-soluble solid. Cyanide has a high affinity for metals, which leads to the high toxicity of this salt. Because of its affinity to metals it is used in gold mining.

Sodium cyanide finds extensive use in the extraction of gold and silver from ores, in ore floatation process, pharmaceuticals and complexing agents, synthesis of intermediate compounds for preparation of hydrocyanic acid, heat treatment salts, preparation of metallic salts, etc.

This is also used as insecticides/weedicides; in the preparation of cyanuric chloride, cleaning of metals, as fumigant and in the manufacture of dyes and pigments and nylon intermediate.

Sodium cyanide is a versatile chemical and is highly poisonous, BIS first published IS 11782 for sodium cyanide in the year 1986. This standard has been revised in 2024 to incorporate and modify the requirements needed in current industrial applications.

This standard prescribes the requirements and methods of sampling and test for sodium cyanide, technical. Various physico-chemical properties including purity and various impurities and their test methods have been stipulated. Emphasis has been given on packing and marking. A detailed annex has been included to cover safety precautions and safe handling.