

# POISON CHEMISTRY - CYANIDE COMPOUNDS

Cyanide is a fast-acting, bitter-tasting poison, and one of the deadliest known. Its compounds have famously been utilised in suicide pills over the years.

## HISTORY



Cyanide has been used for centuries as a poison, but was first identified in 1782 by the Swedish chemist Scheele; in fact, it's thought Scheele's death may have been contributed to by cyanide exposure.



During WWI, the French attempted to use hydrocyanic acid, then cyanogen chloride, in chemical warfare. In WWII, The Nazis used hydrogen cyanide in the form of Zyklon B to kill millions in their concentration camps.



Hydrogen cyanide gas has previously been used for pest control, which sometimes led to accidental deaths. Today, cyanides are still used in the mining of gold and silver, and in organic synthesis reactions.

## EFFECTS



DIZZINESS & HEADACHE



NAUSEA & VOMITING



RAPID BREATHING & HEART RATE



LOW BLOOD PRESSURE



LOSS OF CONSCIOUSNESS



RESPIRATORY FAILURE



COMA & DEATH

Cyanide inhibits the cytochrome oxidase enzyme, preventing the body's cells from using oxygen. HCN smells of bitter almonds, but only ~40% of people have the genetic ability to smell it. Many fruit seeds also contain small amounts of cyanide-containing compounds.

## HCN KCN NaCN

HYDROGEN  
CYANIDE

POTASSIUM  
CYANIDE

SODIUM  
CYANIDE

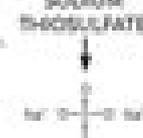
(These HCN and NaCN have yet been converted to HCN by stomach acid)



MEDIAN LETHAL DOSE: 3-8mg/kg

(oral - varies depending on form of cyanide compound)

## TREATMENT

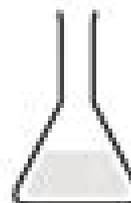


VITAMIN B12a

The most prevalent antidotes are nitrites, which convert haemoglobin into methaemoglobin, which then removes cyanide from cytochrome oxidase. Thiosulfate helps convert cyanide to thiocyanate so it can be excreted. Cobalt ions also form a stable complex with cyanide.

## DETECTION

Sample added to 1% NaOH solution



Transferred to solution of 1% FeSO<sub>4</sub> & 1% FeCl<sub>3</sub>



Adding hydrochloric acid solution gives prussian blue

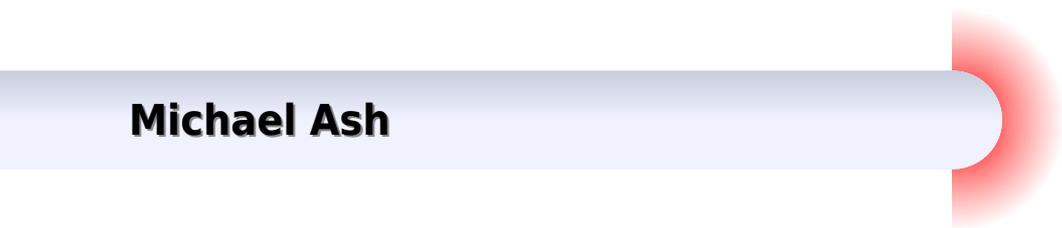


A common test for cyanide in the early 20<sup>th</sup> Century formed prussian blue, an iron-cyanide complex, in the presence of cyanide ions. There are several other chemical tests, including portable color-based tests, and instrumental methods can also be used.



# Chapter 39 Sodium Cyanide Properties Toxicity Uses And

**Michael Ash**



## Chapter 39 Sodium Cyanide Properties Toxicity Uses And:

*Handbook of Hazardous Material* Mervin Fingas, 2001-09-18 An all new update to the classic hazmat reference book with several new chapters Addresses issues such as International Law and Regulations Risk Assessment Biological Effects and Spill Modeling New chapters feature information on frequently spilled compounds and list tables of materials **Hawley's Condensed Chemical Dictionary** Robert A. Lewis, 2016-05-31 1471 new definitions 5 236 revised or updated definitions a new Chemical Abstract Number index and an update of all trademarks Significant expansion of both chemical and biochemical terms including the addition of biochemical terms in the emerging fields in biology and biological engineering such as synthetic biology highlighting the merging of the sciences of chemistry and biology Updates and expands the extensive data on chemicals trade name products and chemistry related definitions Adds entries for notable chemists and Nobel Prize winners equipment and devices natural forms and minerals named reactions and chemical processes Update on toxicological profiles Hunter's Diseases of Occupations Peter Baxter, Tar-Ching Aw, Anne Cockcroft, Paul Durrington, J Malcolm Harrington, 2010-10-29 Winner of the 2011 BMA book awards medicine category In the five decades since its first publication Hunter's Diseases of Occupations has remained the pre eminent text on diseases caused by work universally recognized as the most authoritative source of information in the field It is an important guide for doctors in all disciplines who may **Federal Register**, 1976-02-13 Waste Material Recycling in the Circular Economy Dimitris S. Achilias, 2022-04-20 This book highlights current challenges and developments in waste material recycling in the framework of a circular economy The increase in the standard of living has resulted in the large consumption of several materials mainly polymers Therefore the problem of waste recycling specifically polymer recycling in an environmentally friendly way is more urgent than ever Nowadays more specialized recycling methods are required to manage a wide variety of wastes Over fourteen chapters in three sections this book addresses such topics as chemical recycling techniques recycling of polyethylene denim production and recycling valorization of waste materials urban mining the circular economy and much more **Squibb Abstract Bulletin**, 1929 An authoritative epitome of important articles dealing with medical materials that are of particular interest to the medical and pharmaceutical professions **Handbook of Green Chemicals** Michael Ash, 2004 More than 7000 trade name products and more than 2500 generic chemicals that can be used in formulations to meet environmental concerns and government regulations This reference is designed to serve as an essential tool in the strategic decision making process of chemical selection when focusing on human and environmental safety factors Industries Covered Adhesives Refrigerants Water Treatment Plastics Rubber Surfactants Paints Coatings Food Pharmaceuticals Cosmetics Petroleum Processing Metal Treatment Textiles The chemicals and materials included are used in every aspect of the chemical industry The reference is organized so that the reader can access the information based on the trade name chemical components functions and application areas green attributes manufacturer CAS number and EINECS

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*Crop Protection Handbook* ,2004 **Biological Abstracts** Jacob Richard Schramm, 1927 **Engineering and Mining Journal** ,1928 **Medical Response to Terrorism** Daniel C. Keyes, 2005 This comprehensive reference provides all the information emergency departments and personnel need to prepare for and respond to terrorist events The first section covers all agents potentially used in terrorist attacks chemical biologic toxicologic nuclear and explosive in a systematic format that includes background triage decontamination signs and symptoms medical management personnel protection and guidelines for notifying public health networks Algorithms show when to suspect and how to recognize exposure and detail signs and symptoms and management protocols The second section focuses on all hazards preparedness for hospitals communities emergency medical services and the media and includes an important chapter on simulation of disasters

*Farm Chemicals Handbook* ,1999 *Corrosion Abstracts* ,1978 *The Chemical News and Journal of Industrial Science* ,1921 **Handbook of Pesticide Toxicology: Principles** Robert Irving Krieger, 2001 *Canadian textile journal* ,1929 **Journal of Organic Chemistry of the USSR.** ,1979 **Remington's Practice of Pharmacy** Joseph Price Remington, 1951 **Scientific American** ,1901

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