

A Comprehensive Guide To The Hazardous Properties Of Chemical Substances

Hazardous waste

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Hazardous waste is waste that must be handled properly to avoid damaging human health or the environment. Waste can be hazardous because it is toxic, reacts violently with other chemicals, or is corrosive, among other traits. As of 2022, humanity produces 300-500 million metric tons of hazardous waste annually. Some common examples are electronics, batteries, and paints. An important aspect of managing hazardous waste is safe disposal. Hazardous waste can be stored in hazardous waste landfills, burned, or recycled into something new. Managing hazardous waste is important to achieve worldwide sustainability. Hazardous waste is regulated on national scale by national governments as well as on an international scale by the United Nations (UN) and international treaties.

Fluorine perchlorate

from [1] on 2009-05-21. Pradyot Patnaik. A comprehensive guide to the hazardous properties of chemical substances, 3rd ed., Wiley-Interscience, 2007. ISBN 0-471-71458-5

Fluorine perchlorate, also called perchloryl hypofluorite is the rarely encountered chemical compound of fluorine, chlorine, and oxygen with the chemical formula ClO_4F or FOClO_3 . It is an extremely unstable gas that explodes spontaneously and has a penetrating odor.

Bromine pentafluoride

ISBN 978-0-08-037941-8. Patnaik, Pradyot (2007). A comprehensive guide to the hazardous properties of chemical substances (3rd ed.). Wiley-Interscience. p. 480.

Bromine pentafluoride, BrF_5 , is an interhalogen compound and a fluoride of bromine. It is a strong fluorinating agent.

BrF₅ finds use in oxygen isotope analysis. Laser ablation of solid silicates in the presence of BrF₅ releases O₂ for subsequent analysis. It has also been tested as an oxidizer in liquid rocket propellants and is used as a fluorinating agent in the processing of uranium.

Potassium hydride

17-47. Pradyot Patnaik (1 July 2007). *A Comprehensive Guide to the Hazardous Properties of Chemical Substances*. John Wiley and Sons. pp. 631-. ISBN 978-0-470-13494-8

Potassium hydride, KH, is the inorganic compound of potassium and hydrogen. It is an alkali metal hydride. It is a white solid, although commercial samples appear gray. It is a powerful superbase that is useful in organic synthesis. It is sold commercially as a slurry (~35%) in mineral oil or sometimes paraffin wax to facilitate dispensing.

Agency for Toxic Substances and Disease Registry

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The Agency for Toxic Substances and Disease Registry (ATSDR) is a federal public health agency within the U.S. Department of Health and Human Services (HHS). The agency focuses on minimizing human health risks associated with exposure to hazardous substances. It works closely with other federal, state, and local agencies; tribal governments; local communities; and healthcare providers. Its mission is to "Serve the public through responsive public health actions to promote healthy and safe environments and prevent harmful exposures." ATSDR was created as an advisory, nonregulatory agency by the Superfund legislation and was formally organized in 1985.

Although ATSDR is an independent operating agency within HHS, the Centers for Disease Control and Prevention (CDC) performs many of its administrative...

Allyl iodide

reactions of allyl halides with metal compounds. Patnaik, Pradyot (2007). A Comprehensive Guide to the Hazardous Properties of Chemical Substances 3rd Ed

Allyl iodide (3-iodopropene) is an organic halide used in synthesis of other organic compounds such as N-alkyl-2-pyrrolidones, sorbic acid esters, 5,5-disubstituted barbituric acids, and organometallic catalysts. Allyl iodide can be synthesized from allyl alcohol and methyl iodide on triphenyl phosphite,

Finkelstein reaction on allyl halides, or by the action of elemental phosphorus and iodine on glycerol. Allyl iodide dissolved in hexane can be stored for up to three months in a dark freezer at -5°C (23°F) before decomposition into free iodine becomes apparent.

Bromine azide

PMID 22250068. Patnaik, Pradyot (2007). A Comprehensive Guide to the Hazardous Properties of Chemical Substances. 615: Wiley-Interscience. p. 615. ISBN 978-0-471-71458-3

Bromine azide is an explosive inorganic compound with the formula BrN_3 . It has been described as a crystal or a red liquid at room temperature. It is highly sensitive to small variations in temperature and pressure, with explosions occurring at Δp (pressure change) ≥ 0.05 Torr upon crystallization, thus extreme caution must be observed when working with this chemical.

Performic acid

heated rapidly to $80\text{--}85^{\circ}\text{C}$. Pradyot Patnaik A comprehensive guide to the hazardous properties of chemical substances, Wiley-Interscience, 2007, ISBN 0-471-71458-5

Performic acid (PFA) is an organic compound with the formula CH_2O_3 . It is an unstable colorless liquid which can be produced by mixing formic acid with hydrogen peroxide. Owing to its oxidizing and disinfecting action, it is used in the chemical, medical and food industries.

Toxic Substances Control Act of 1976

The TSCA Chemical Substance Inventory (TSCA Inventory) is EPA's comprehensive list of confidential and non-confidential chemical substances. The non-confidential

The Toxic Substances Control Act (TSCA) is a United States law, passed by the Congress in 1976 and administered by the United States Environmental Protection Agency (EPA), that regulates chemicals not regulated by other U.S. federal statutes, including chemicals already in commerce and the introduction of new chemicals. When the TSCA was put into place, all existing chemicals were considered to be safe for use and subsequently grandfathered in. Its three main objectives are to assess and regulate new commercial chemicals before they enter the market, to regulate chemicals already existing in 1976 that posed an "unreasonable risk of injury to health or the environment", as for example PCBs, lead, mercury and radon, and to regulate these chemicals' distribution and use.

Contrary to what the...

Globally Harmonized System of Classification and Labelling of Chemicals

Carcinogenicity means a chemical substance or a mixture of chemical substances that induce cancer or increase its incidence. Substances and mixtures in this

The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) is an internationally agreed-upon standard managed by the United Nations that was set up to replace the assortment of hazardous material classification and labelling schemes previously used around the world. Core elements of the GHS include standardized hazard testing criteria, universal warning pictograms, and safety data sheets which provide users of dangerous goods relevant information with consistent organization. The system acts as a complement to the UN numbered system of regulated hazardous material transport. Implementation is managed through the UN Secretariat. Although adoption has taken time, as of 2017, the system has been enacted to significant extents in most major countries of the world. This includes...

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