

Precautions for laboratory workers who handle carcinogenic aromatic amines.

Chester Beatty Research Institute - A rapid and simple method for the specific estimation of glucose in blood

Nitrile: Poor protection (<1 minute) Organics	
Acetone	Ethanol
1,4-Dioxane	Ethyl acetate
Acetonitrile	Methanol
Acrylonitrile	n-Butanol
Benzene	Nitrobenzene
Carbon disulfide	n-Pyrene
Chloroform	Phenol
Dichloromethane	Pyridine
Diethyl ether	Tetrahydrofuran
Dimethylformamide (DMF)	Toluene

The chemicals listed in red are able to penetrate the skin, contributing to systemic toxic effects of exposure to the chemical. (ACGIH, Skin notation)

Nitrile has poor resistance to:

- Alcohols
- Ketones
- Halogenated hydrocarbons
- Aromatic hydrocarbons
- Esters
- Ethers
- Amines
- Concentrated acids

Description: -

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Notes: Adapted from recommendations of the Association of British Chemical Manufacturers.

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Safety Measures to be Taken when Moving to a New Laboratory

In general, the larger the value of the LD 50 or LC 50, the more chemical it takes to kill the test animals and therefore the lower the toxicity of the chemical. Finally, a variety of devices are available for measuring the concentration of chemicals in laboratory air, so that the degree of hazard associated with the use of a chemical can be assessed directly. In animal laboratory, personnel should.

CAB Direct

The ACGIH's multivolume publication Documentation of the Threshold Limit Values and Biological Exposure Indices reviews the data with reference to literature sources that were used to establish the threshold limit values. Preference was also given to materials that pose relatively serious hazards.

Safe handling of carcinogens

Although MSDSs and LCSSs include considerable information on toxic effects, in some situations the laboratory worker should seek additional, more detailed information.

Aromatic Amino Compounds

Alkynes or acetylenic hydrocarbons contain a triple bond in the molecule and are highly unsaturated. Inhalation exposure requires special equipment. These data are given in Tables 4.

Aromatic Amino Compounds

The upper flammable limit upper explosive limit UEL is the maximum concentration percent by volume of the vapor in air above which a flame is

not propagated. A handy booklet listing ACGIH threshold limit values TLVs and short-term exposure limits STELs. Detection Limit of the Overall Procedure and Reliable Quantitation Limit Data for Benzidine sample no.

Evaluating Hazards and Assessing Risks in the Laboratory

For example, the reliable quantitation limit for benzidine for a 15-L air sample would be 27. Eroded insulation on electrical equipment in wet locations such as cold rooms or cooling baths must be repaired immediately.

Safe handling of carcinogens

Substitute saturated NaOH for 0.

Appendix I

MSDSs are concise technical documents, generally two to five pages in length. Disposable aprons and lab coats are preferable to reduce risks of repeated exposure. Examples of local effects include 1 ingestion of caustic substances causing burns and ulcers in the mouth, esophagus, stomach, and intestines, 2 inhalation of hazardous materials causing toxic effects in the nose and lungs, and 3 contact with harmful materials on the skin or eyes leading to effects ranging from mild irritation to severe tissue damage.

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