

化学品安全技术说明书

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MSDS标题

N-AMYL MERCAPTAN MSDS报告

产品标题

1-戊烷硫醇;1-十五硫醇正戊硫醇

CAS号

110-66-7

化学品及企业标识

PRODUCT NAME

N-AMYL MERCAPTAN

NFPA

Flammability	3
Toxicity	2
Body Contact	2
Reactivity	1
Chronic	2

SCALE: Min/Nil=0 Low=1 Moderate=2 High=3 Extreme=4

PRODUCT USE

Intermediate in organosulfur synthesis; odourants for hazardous gases. Intermediate

SYNONYMS

C5-H12-S, CH₃(CH₂)₃CH₂SH, 1-pentanethiol, 1-pentanethiol, "amyl thioalcohol", "amyl hydrosulfide", "amyl hydrosulphide", "amyl sulfhydrate", Pentalarm, "pentyl mercaptan", n-amylmercaptan, n-amylmercaptan

CANADIAN WHMIS SYMBOLS

EMERGENCY OVERVIEW

RISK

Highly flammable.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

Although ingestion is not thought to produce harmful effects, the material may still be damaging to the health of the individual following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality (death) rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.

EYE

Although the liquid is not thought to be an irritant, direct contact with the eye may produce transient discomfort characterized by tearing or conjunctival redness (as with windburn).

SKIN

The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives . Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

INHALED

Inhalation may produce health damage*. The material is not thought to produce respiratory irritation (as classified using animal models). Nevertheless inhalation of vapors, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Thiols (particularly ethyl mercaptan) produce lethargy or sleepiness. Exposure to high levels may result in nausea, vomiting, restlessness, muscle incoordination and or paralysis, bluing of skin, depression of breathing, coma and death.

CHRONIC HEALTH EFFECTS

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. There is limited evidence that, skin contact with this product is more likely to cause a sensitization reaction in some persons compared to the general population. Chronic exposure to mercaptans may result in damage to the lungs, kidneys and liver. Sensitization may result in allergic dermatitis responses including rash, itching, hives or swelling of extremities. From sub-acute and chronic studies there is evidence that n-amyl mercaptan is a weak allergen as well as a sensitiser. It may cause contact dermatitis.