

化 学 品 安 全 技 术 说 明 书

填表时间 2019-12-31

打印时间 2025-09-18

MSDS标题

N-HEXADECYL MERCAPTAN MSDS报告

产品标题

十六硫醇;正十六硫醇;n-十六烷基硫醇

CAS号

2917-26-2

化学品及企业标识

PRODUCT NAME

N-HEXADECYL MERCAPTAN

NFPA

Flammability	1
Toxicity	2
Body Contact	0
Reactivity	1
Chronic	2

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

PRODUCT USE

Intermediate in synthetic rubber processing and for synthesis of surfactants; corrosion inhibitor. Intermediate

SYNONYMS

C16-H34-S, CH₃(CH₂)₁₄CH₂SH, "hexadecanoic acid, 2(dimethylamino)ethyl ester, (Z)-2-butenedioate (1:1)", "hexadecanoic acid, 2(dimethylamino)ethyl ester, (Z)-2-butenedioate (1:1)", 1-hexadecanethiol, 1-hexadecanethiol, n-hexadecanethiol, n-hexadecanethiol, "2-(dimethylamino)ethyl hexadecanoate (Z)-2-butenedioate (1:1)", "2-(dimethylamino)ethyl hexadecanoate (Z)-2-butenedioate (1:1)", n-hexadecylthiol, n-hexadecylthiol, "cetyl mercaptan", n-hexadecylmercaptan, n-hexadecylmercaptan

CANADIAN WHMIS SYMBOLS

None

EMERGENCY OVERVIEW

RISK

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

The material has NOT been classified as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. 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, unintentional ingestion 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 . 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

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.