

## 化 学 品 安 全 技 术 说 明 书

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### MSDS标题

N-BUTYL FORMATE MSDS报告

### 产品标题

蚁酸丁酯;甲酸正丁酯

### CAS号

592-84-7

### 化学品及企业标识

## PRODUCT NAME

N-BUTYL FORMATE

## NFPA

Flammability	3
Toxicity	2
Body Contact	2
Reactivity	1
Chronic	0
SCALE: Min/Nil=0 Low=1 Moderate=2 High=3 Extreme=4	

## PRODUCT USE

Solvent for nitrocellulose, some cellulose acetates, cellulose ethers, and many resins (both natural and synthetic), laquers, perfumes. Used in organic syntheses.

## SYNONYMS

C5-H10-O2, HCO2(CH2)3CH3, n-butylformate, n-butylformate, "formic acid, n-butyl ester", "formic acid, n-butyl ester", "butyl formate"

## CANADIAN WHMIS SYMBOLS

## EMERGENCY OVERVIEW

### RISK

HARMFUL - May cause lung damage if swallowed.  
Irritating to eyes and respiratory system.  
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. Formate ion may directly act on the brain to produce convulsions. Large quantities administered to animals produced retinal lesions.

#### EYE

This material can cause eye irritation and damage in some persons.

#### SKIN

The material is not thought to produce adverse health effects or skin irritation following contact (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. The liquid may produce skin discomfort following prolonged contact. Defatting and/or drying of the skin may lead to dermatitis.

#### INHALED

Inhalation may produce health damage\*. If inhaled, this material can

irritate the throat and lungs of some persons. The main effects of simple esters are irritation, stupor and insensibility. Headache, drowsiness, dizziness, coma and behavioral changes may occur. Respiratory symptoms may include irritation, shortness of breath, rapid breathing, throat inflammation, bronchitis, lung inflammation and pulmonary edema, sometimes delayed. Nausea, vomiting, diarrhea and cramps are observed. Liver and kidney damage may result from massive exposures.

## **CHRONIC HEALTH EFFECTS**

Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapors especially at higher temperatures. No human exposure data available. For this reason health effects described are based on experience with chemically related materials. As with any chemical product, contact with unprotected bare skin; inhalation of vapor, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

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