

## 化 学 品 安 全 技 术 说 明 书

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### MSDS标题

KODAK VNF-1/RVNP COLOR DEVELOPER REPLENISHER MSDS报告

### 产品标题

叔丁胺-甲硼烷络合物

### CAS号

7337-45-3

### 化学品及企业标识

## PRODUCT NAME

KODAK VNF-1/RVNP COLOR DEVELOPER REPLENISHER PART B

## NFPA

Flammability	3
Toxicity	4
Body Contact	3
Reactivity	1
Chronic	2

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

## PRODUCT USE

Water- soluble borane reducing agent. Part B of a professional motion picture photographic processing solution.

## **SYNONYMS**

C4-H14-B-N, (CH<sub>3</sub>)<sub>3</sub>CNH<sub>2</sub>.BH<sub>3</sub>, "tert-butylamine, compd. with borane (1:1)", "tert-butylamine borane", "2-methyl-2-propanamine compd. with borane (1:1)", "2-methyl-2-propanamine compd. with borane (1:1)", "professional motion picture photographic processing solution", Part-B, 400-0279, KAN-908205, PCD-14075

## **CANADIAN WHMIS SYMBOLS**

### **EMERGENCY OVERVIEW**

## **RISK**

Very toxic if swallowed.

Causes burns.

Risk of serious damage to eyes.

Flammable.

## **POTENTIAL HEALTH EFFECTS**

### **ACUTE HEALTH EFFECTS**

#### **SWALLOWED**

Severely toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 5 gram may be fatal or may produce serious damage to the health of the individual. The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Borate poisoning causes nausea, vomiting, diarrhea and pain in the upper abdomen. Often persistent vomiting occurs, and there may be blood in the feces. There may also be weakness, lethargy, headache, restlessness, tremors and convulsions. All borates cause similar effects; the lethal dose is over 30 grams. Poisoning initially stimulates the central nervous system before causing depression, as well as disturbing the digestive system, causing skin eruptions, and damage to the liver and kidneys. Borate is mostly eliminated from the body via the kidneys.

#### **EYE**

The material can produce chemical burns to the eye following direct contact. Vapors or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage.

#### **SKIN**

The material can produce chemical burns following direct contact with the skin. Open cuts, abraded or irritated skin should not be exposed to this material. The material may accentuate any pre-existing skin condition.

Toxic effects may result from skin absorption.

## **INHALED**

If inhaled, this material can irritate the throat and lungs of some persons. Inhalation of vapor may aggravate a pre-existing respiratory condition.

## **CHRONIC HEALTH EFFECTS**

Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts. Borate can accumulate in the testes and deplete germ cells and cause withering of the testicles, according to animal testing. Hair loss, skin inflammation, stomach ulcer and anemia can all occur. Repeated swallowing or inhalation irritates the stomach, causes a loss of appetite, disturbed digestion, nausea and vomiting, red rash, dry skin and mucous membranes, reddening of the tongue, cracking of the lips, inflamed conjunctiva, swelling of the eyelids and kidney injury. Prolonged ingestion causes effects to the reproductive system in both males and females.