

## 化 学 品 安 全 技 术 说 明 书

填表时间 2019-12-26

打印时间 2025-04-19

### MSDS标题

WIA AUSTFLUX STAINLESS STEEL FLUX MSDS报告

### 产品标题

氧化硼钠五水合物;四硼酸钠(五水)

### CAS号

12179-04-3

### 化学品及企业标识

## PRODUCT NAME

WIA AUSTFLUX STAINLESS STEEL FLUX

## NFPA

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

## PRODUCT USE

Stainless steel welding flux. · Material is mixed and used in accordance with manufacturers directions.

## SYNONYMS

"Welding Industries", "stainless steel welding flux", "W.I.A. stainless steel flux",  
"Austflux for S.S."

## CANADIAN WHMIS SYMBOLS

## EMERGENCY OVERVIEW

### RISK

Harmful if swallowed.

Contact with acids liberates very toxic gas.

May impair fertility.

May cause harm to the unborn child.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Irritating to eyes, respiratory system and skin.

### POTENTIAL HEALTH EFFECTS

### ACUTE HEALTH EFFECTS

#### SWALLOWED

Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Considered an unlikely route of entry in commercial/industrial environments.

#### EYE

This material can cause eye irritation and damage in some persons. Fumes from welding/brazing operations may be irritating to the eyes. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

#### SKIN

This material can cause inflammation of the skin on contact in some persons. Skin contact is not thought to have harmful health effects, however the material may still produce health damage following entry through wounds, lesions or abrasions.

#### INHALED

If inhaled, this material can irritate the throat and lungs of some persons. Although inhalation is not thought to produce harmful effects, the material

may still produce health damage, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally confined to doses producing mortality (death) rather than those producing morbidity (disease, ill-health).

## **CHRONIC HEALTH EFFECTS**

Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material.

Principal routes of exposure are usually by skin contact/absorption and inhalation of fumes from welding. Sodium borates are absorbed slowly through intact skin and very rapidly through broken skin but not to a sufficient extent to cause poisoning. Chronic absorption may lead to boron deposition in the liver, brain, bone and adipose tissue. Chronic dust inhalation may lead to inflammation of the respiratory mucous membranes and conjunctivitis. (ILO Encyclopaedia) A significant hazard associated with the product is the inhalation of welding fumes. On heating fluoride gases are produced; these are highly irritating to the respiratory tract and in high concentrations are corrosive. Chronic fluoride poisoning has been related to skeletal abnormalities. (ILO Encyclopaedia)