



# MADRAS FLUORINE PRIVATE LTD



## Safety Data Sheet Potassium Metaborate

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
<b>Product Name</b>	Potassium Metaborate	
<b>Uses</b>	Laboratory chemicals, Manufacture of substances	
<b>Synonyms</b>	Potassium borate	
<b>EINECS-No.</b>	237-262-2	
<b>Contact Information</b>	<b>Madras Fluorine Private Ltd</b> New No.71, 4 <sup>th</sup> Main Road Gandhi Nagar, Adyar Chennai 600 020, India Fax : 00-91-44-24420654 E-mail : <a href="mailto:exim@mfpfluorine.com">exim@mfpfluorine.com</a>	
<b>Emergency Telephone No:</b>	<b>+91 44 2442 6830 [OFFICE]</b> <b>MON – FRI : 9.30 AM – 6.00 PM</b>	<b>+91 44 3290 0358 [FACTORY]</b> <b>SAT – SUN : 9.30 AM – 6.00 PM</b>

SECTION 2 : HAZARDS IDENTIFICATION
<b>Classification of the substance or mixture</b>
<b>Classification according to Regulation (EC) No 1272/2008</b> Eye irritation (Category 2), H319 Reproductive toxicity (Category 2), H361d For the full text of the H-Statements mentioned in this Section, see Section 16.
<b>Classification according to EU Directives 67/548/EEC or 1999/45/EC</b> Xn Harmful R36, R63  For the full text of the R-phrases mentioned in this Section, see Section 16.

## Label elements

### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

H319

Causes serious eye irritation.

H361d

Suspected of damaging the unborn child.

Precautionary statement(s)

P281

Use personal protective equipment as required.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

**Other hazards** - none

## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

Synonyms : Potassium borate

Formula :  $BK_2O_3 \cdot xH_2O$

Molecular Weight : 81,91 g/mol

CAS-No. : 13709-94-9

EC-No. : 237-262-2

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
<b>Potassium metaborate</b>		
CAS-No. 13709-94-9 EC-No. 23-262-2	Eye Irrit. 2; Repr. 2; H319, H361d	<= 100 %

## Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration
<b>Potassium metaborate</b>		
CAS-No. 13709-94-9	Xn, R36 - R63	<= 100 %
EC-No. 237-262-2		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

## SECTION 4 : FIRST AID MEASURES

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

no data available

## SECTION 5 : FIRE –FIGHTINGS MEASURES

### Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Borane/boron oxides, Potassium oxides

#### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Further information

no data available

## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **Reference to other sections**

For disposal see section 13

## **SECTION 7 : HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### **Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### **Specific end use(s)**

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control parameters**

### **Components with workplace control parameters**

### **Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal protective equipment**

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



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## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

## Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White Solids
K <sub>2</sub> O	44 – 45%
B <sub>2</sub> O <sub>3</sub>	33 – 34%
Sodium as Na	0.2% max
Chloride as Cl	0.05% max
Sulphate as SO <sub>4</sub>	0.1% max
Iron as Fe	0.005% max

## SECTION 10 : STABILITY AND REACTIVITY

### Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

**Materials to be avoided:** No information known.

**Dangerous reactions :** No dangerous reactions known

**Dangerous products of decomposition:** Metal oxide fume



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## SECTION 11 : TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available

**Primary irritant effect:**

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Subacute to chronic toxicity:**

The toxicity of potassium compounds is generally due to the anion.

**Subacute to chronic toxicity:**

Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistent vomiting and diarrhea, followed by profound shock and coma. The temperature may become subnormal and a scarletina form rash may cover the entire body.

**Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

## SECTION 12 : ECOLOGICAL INFORMATION

Toxicity : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Results of PBT and vPvB assessment :

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects : No data available.

## SECTION 13 : DISPOSAL CONSIDERATIONS

**Product:**

Recommendation Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packagings:**

Recommendation: Disposal must be made according to official regulations.



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## SECTION 14 : TRANSPORT INFORMATION

**Not a hazardous material for transportation.**

**DOT regulations:**

**Hazard class: None**

**Land transport ADR/RID (cross-border) ADR/RID class: None**

**Maritime transport IMDG: IMDG Class: None**

**Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: None**

**Transport/Additional information:** Not dangerous according to the above specifications.

## SECTION 15 : REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
no data available

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

## SECTION 16 : OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3.**

Eye Irrit.	Eye irritation
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
Repr.	Reproductive toxicity

**Full text of R-phrases referred to under sections 2 and 3**

Xn	Harmful
R36	Irritating to eyes.
R63	Possible risk of harm to the unborn child.

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