

## Material Safety Data Sheet

### HF Sensor Calibrator

#### MANUFACTURER

SemeaTech (Shanghai) Co., Ltd.  
1355 Chengbei Road, Bldg 1, Suite #801  
Jiading District, Shanghai, China 201807  
Email: info\_cn@semetech.com · Website: www.semeatech.com · Phone: +86-21-59547013

#### CHEMICAL IDENTIFICATION:

Aqueous Hydrogen Fluoride & Active carbon.

#### HAZARDS IDENTIFICATIONS

Signal Word: Danger, Warning.

#### COMPOSITION OF INGREDIENTS

Ingredient	CAS No:	%	Symbol(s)
Hydrogen Fluoride		< 2.0% w/w	Toxic
Active Carbon		>97% w/w	Harmful

#### FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention. Ingestion: Rinse out mouth with water and give plenty of water to drink. Do not induce vomiting. Seek medical attention immediately. Skin Contact: Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists seek medical advice. Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, lifting the eyelid and avoiding contamination of unaffected eye. Seek medical advice.

#### FIRE FIGHTING MEASURES

Extinguishing Media: All types suitable. Use extinguishing media appropriate to surrounding fire conditions. If involved in a fire: Emits noxious fumes under fire conditions. Wear breathing apparatus and protective clothing.

#### ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment (PPE). Beware of sharp plastic shards if it has been broken. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area & wash spill sight after material pick up is complete.

#### HANDLING & STORAGE

Handle the calibrator under good ventilation conditions to avoid breathing in any fumes using suitable PPE. Store in cool, dry area away from sources of ignition.

#### PHYSICAL & CHEMICAL PROPERTIES

	Appearance	pH	Boiling Point	Relative Density	Solubility
Hydrofluoric acid	Colorless liquid	< 1.0	100	1.18 g/cm <sup>3</sup>	Miscible
Active carbon	Black powder	4 - 7	N/a	0.5	Insoluble

#### **STABILITY & REACTIVITY**

Stable. Avoid naked flames, strong oxidizing agents and strong plastic solvents.

#### **TOXICOLOGICAL INFORMATION**

Can cause severe irritation to the skin, eyes and respiratory tract. It is toxic by inhalation and can cause burns to skin, respiratory tract and throat if ingested.

#### **ECOLOGICAL INFORMATION**

Degrades readily hence no adverse effects to the environment.

#### **DISPOSAL CONSIDERATIONS**

If expired, the hydrogen fluoride will be spent up and the calibrator can be disposed of by landfill at an approved site, however consult local regulations before disposal. It is recommended the calibrator be wrapped in tissue/ bubble wrap when disposing. A fresh standard should be disposed by incineration by a licensed waste material processor.

#### **TRANSPORT INFORMATION**

No special requirements since less than 2% Hydrogen Fluoride.