



## Two workers who inhaled toxic gas at PUB's Choa Chu Kang Waterworks remain in intensive care

Three workers were taken to hospital last Thursday after inhaling hydrogen sulphide gas while carrying out tank cleaning works at Choa Chu Kang Waterworks. One of them died later that day.

Reference: <https://www.channelnewsasia.com/singapore/pub-subcontractors-intensive-care-hospital-toxic-gas-choa-chu-kang-waterworks-one-died-4365581>

**Takeaway:** "What is hydrogen sulphide? It is a colourless gas with a potent, unpleasant odour similar to that of rotten eggs or sewage. It is also highly toxic and flammable. Is your company CERT team ready for this kind of emergency?"

**Food for thought:**

- H2S is heavier than air. Therefore, it can accumulate at low-lying areas and enclosed spaces such as basements or workpits.
- H2S is produced naturally via decomposition of organic matter in poor oxygen environments like sewers.
- H2S is also a common byproduct of water treatment process, petroleum and natural gas drilling & refining, and other industrial process.
- H2S is toxic and flammable in physical properties.
- Personal detector and respiratory protection are typically needed whenever there is risk of exposure, on top of other standard ppe



### LEARN TO USE FIRE EXTINGUISHERS

### 学习使用灭火器

**OPERATING A FIRE EXTINGUISHER**  
操作灭火器

**PULL** out the safety device of Fire Extinguisher  
拉开安全针

**AIM** nozzle at BASE of FIRE  
将喷嘴对准火源底部  
保持与火源保持 1 到 1.5 公尺的安全距离

**SQUEEZE** the TOP LEVER of the Fire Extinguisher  
按下引擎

**SWEEP** the nozzle from side to side while directing the discharge at the base of the fire

**Different types of Fire Extinguishers**

- Water Extinguisher**  
Effective for fires involving ordinary combustibles, e.g. wood & rubber.
- Carbon Dioxide Extinguisher**  
Effective for fires involving:
- Flammable Liquids**, e.g. petrol & oils
- Live electrical equipment**, e.g. computers and electrical mains.
- Dry Powder Extinguisher**  
Effectively puts out the same types of fires as water and carbon dioxide extinguishers.

**不同种类的灭火器**

- 水柱灭火器**  
用于扑灭普通可燃物引起的火灾，如木头、橡胶等。
- 二氧化碳灭火器**  
用于扑灭下列类型的火灾：  
1. 易燃性液体，如石油和汽油  
2. 带电设备，如电脑和电话等
- 化学干粉灭火器**  
用于扑灭水柱灭火器和二氧化碳灭火器所扑灭的火灾。

It is important to learn how to use a fire extinguisher especially when you are working in a gas industry.

[Reference: <https://www.scdf.gov.sg/>]

**Takeaway:** "Have you been taught how to use a fire extinguisher?"

## Two men killed in gas explosion at Bosch company site in Germany

DPA  
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Emergency services stand on the site of a Bosch plant. Two men die in a gas explosion on the Bosch site. Bernd Weibrod/dpa

**Takeaway:** "Do we treat gas leakage seriously?"

[Reference: <https://www.yahoo.com/news/two-men-killed-gas-explosion-142623800.html>]

**Food for thought:**

- Should there be an interlock when gas leakage detected and trigger appropriate abatement system?
- Are ERT members properly refreshed for their emergency response skills and relevant scenarios on site?



**Safety is Everybody's Responsibility!**

An initiative from IGAS Technical Committee

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