

Product Safety Data Sheet

Electrochemical gas sensors containing organic electrolyte

1. Product Identification			
Electrochemical gas sensors containing organic electrolyte			
Part No.	Substance / Sensor	MST Sensor Part-No.	MSTox Sensor Part-No.
	AsH ₃ (Arsine)	9602-6000 9602-6002 9602-6004	9001-6000 9011-6000
	B ₂ H ₆ (Diborane)	9602-6202	9011-6200
	ClF ₃ (Chlorine Trifluoride)	9602-7410	
	ClO ₂ (Chlorine Dioxide)	9602-7400	
	COCl ₂ (Phosgene)	9602-6600	9011-6600
	GeH ₄ (Germane)	9602-6902	9011-6900
	H ₂ S (Hydrogen Sulfide)	9602-5201	9001-5201
	H ₂ Se (Hydrogen Selenide)	9602-5601	
	HCN (Hydrogen Cyanide)	9602-5700	9001-5700 9001-5701
	N ₂ H ₄ (Hydrazine)	9602-7600	9001-7600
	O ₃ (Ozone)	9602-7100 9602-7101	9011-7100
	PH ₃ (Phosphine)	9602-6100 9602-6102	9001-6100 9011-6100
	SiH ₄ (Silane)	9602-6301	9011-6300
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2. Composition / Information on Ingredients			
ABS plastic housings, proprietary noble metal catalyst electrodes, halogen free organic solvents [CAS 108-32-7], traces of inorganic non toxic salts.			
3. Hazards Identification			
The electrolyte inside the sensor constitutes the main potential hazard. This may leak out, should the housing be damaged or tampered with.			
3.1. Inhalation of electrolyte	Inhalation is not an expected hazard unless heated to high temperatures. Mist or vapour inhalation can cause irritation to the nose, throat, and upper respiratory tract.		
3.2. Ingestion of electrolyte	May cause sore throat, abdominal pain, nausea, and burns of the mouth, throat, and stomach.		
3.3. Skin or eye contact of electrolyte	May cause skin irritation.		
3.4. Aggravation of pre-existing conditions	Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.		
4. First Aid Measures			
In case of leakage and:			
4.1. Eye contact with electrolyte	Irrigate thoroughly with water for at least 15 minutes. Obtain medical advice.		
4.2. Inhalation of electrolyte	Remove to fresh air. Rest and keep warm. Obtain medical advice if applicable.		
4.3. Skin contact with electrolyte	Immediately flush the skin thoroughly with soap and copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Obtain medical advice if continued irritation.		
4.4. Ingestion of electrolyte	If swallowed DO NOT INDUCE VOMITING. Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical advice.		
5. Fire Fighting Measures			
5.1. Fire	Not considered to be a fire hazard.		
5.2. Explosion	Not considered to be an explosion hazard.		
5.3. Fire extinguishing media	Use any means suitable for extinguishing surrounding fire.		
6. Accidental Release Measures			
Damage			
Should any MST Technology gas sensor be so severely damaged or tampered with that the leakage of the contents occurs then the following procedures should be adopted:			
<ul style="list-style-type: none"> • Avoid skin contact with any liquid or internal component through the use of protective gloves. • Disconnect MST Technology gas sensor if it is attached to any equipment. • Use copious amounts of clean water to wash away any spilt electrolyte, particularly important in equipment because of the corrosive nature of the electrolyte. • Observe first aid measures in case of eye contact, inhalation, skin contact or ingestion of electrolyte. 			

7. Handling and Storage

Must not be exposed to temperatures outside the range specified on the specification sheet.
Should not be exposed to organic vapors, which may cause physical damage to the body of the sensor.
Must not be stored in areas containing organic solvents or in flammable liquid stores.

8. Exposure Controls / Personal Protection

None in normal operation.

9. Physical and Chemical Properties

- Colour coded sensors in plastic housing with connection pins or flying leads.
- Sensor is a sealed unit.

10. Stability and Reactivity

Ignition temperature: 445°C.
Insoluble in water.

11. Toxicological Information

To the best manufacturer's knowledge, the toxicological properties have not been thoroughly investigated.

12. Disposal Considerations:

Contains toxic compounds irrespective of physical condition. Should be disposed of according to local waste management requirements and environmental legislation. Should not be burnt since they may evolve toxic fumes.

13. Transport Regulations

MST Technology gas sensors are classified under UN 2800 (batteries - Wet non-spillable) and conform to the special provisions, section 4.5 paragraph A57 of the dangerous goods regulations. As such MST Technology gas sensors are classed as non-dangerous and may be transported without special packing, labels etc. It is important, however, to check any local regulations.

14. Regulatory Information

Non applicable.

Find out more

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