



MICROpeL™ 75M

1. Product name / chemical identification

MICROpeL™ 75M

Catalytic sensor with internal filter to measure methane and hydrogen.

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2. Composition / information on ingredients

Contains a lead acetate chemical filter, an activated charcoal cloth filter and propriety metal catalyst enclosed in a plastic housing with attached metal pads.

3. Hazards Identification

The sensor should not be dismantled or tampered with. In the unlikely event that the contents of the sensor are exposed, the main hazard is from the internal lead acetate chemical filter. Ingestion or skin contact with this filter should be avoided. The charcoal cloth filter presents a minimal dust hazard.

3.1. Hazards –

3.1.1. Lead:

Exposure can cause brain damage. May cause damage to blood-forming, nervous, urinary and reproductive systems. Systems of exposure include loss of appetite, metallic taste in the mouth, anxiety, constipation, nausea, pallor, excessive tiredness, weakness, insomnia, headache, nervous irritability, muscle and joint soreness, tremors, dizziness and abdominal pain.

3.1.2 Charcoal:

Prolonged inhalation of activated carbon dust can lead to pulmonary deposits. In the absence of any specific TLV for this form of carbon, the nuisance dust TLV of 10mg/m³ should be applied.

3.2. Aggravation of pre-existing conditions - Lead:

Exposure is more likely to cause a problem for those suffering from diseases of the blood-forming, nervous, urinary and reproductive systems. Exposure to lead may result in injury to a developing foetus.



4. First-Aid Measures

In case of physical damage and:

4.1. Eye contact with lead:

Irrigate thoroughly with water. Obtain medical advice.

4.2. Inhalation of lead / Charcoal, fumes or dust:

Remove to fresh air. Obtain medical advice.

4.3. Skin contact with lead:

Immediately flush the skin thoroughly with water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Obtain medical advice if continued irritation.

4.4. Ingestion of lead:

If swallowed and individual is conscious, induce vomiting. Obtain medical attention.

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

6.1. Damage

Should any CiTipeL[®] be so severely damaged or tampered with that the contents of the sensor are accessible then the following procedures should be adopted:

- Avoid skin contact with any internal component through the use of protective gloves.
- Disconnect CiTipeL[®] if it is attached to any equipment and allow time to cool before handling.
- Observe first aid measures in case of eye contact, inhalation or skin contact.
- Internal filter contains lead acetate and glass fibre.

7. Handling and Storage

Must not be exposed to temperatures outside the range specified on the specification sheet.

8. Exposure controls / personal protection

None in normal operation

9. Physical and chemical properties

- Plastic sensor with 3 metal connector pads.
- Sensor is a sealed unit

10. Stability and reactivity

N/A



11. Toxicological information

Chemical filter material, Lead (II) Acetate: R61: May cause harm to the unborn child. R62: Possible risk of impaired fertility. R33: Danger of cumulative effects. R48 : Danger of serious damage to health by prolonged exposure. R22 : Harmful if swallowed. Carcinogen, Category 3, CHIP: R40 : Possible risk of irreversible effects. Toxic for Reproduction, Category 1. UK Exposure limits: MEL, long-term, 0.15 mg/m³ -Lead and its compounds.
Charcoal filter materials, Harmful effects of this product have not been observed.

12. Ecological Information

12.1. Degradability:

No information available.

12.2. Environmental Hazards:

No information available.

13. 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.

14. Transport Regulations

No special requirements.

15. Regulatory information

N/A

16. Revision History

Issue 1.0 New Issue