



# COSHH Risk Assessment

MD137

## SUBSTANCE INFORMATION

Substance/material: **Canned Smoke, Smoke Detector Tester**

Trade name: **Aero 300**

What is the substance used for? **Smoke detector testing**  
(E.g. cleaning floors, protective coating, etc.)

What are the hazardous ingredients/chemicals in the substance? (List below)

**1,1,1,2-Tetrafluoroethane** CAS No. 811-97-2 EC No. 212-377-0

**Propan-2-ol** CAS No. 67-63-0 EC No. 200-661-7

Do any of the chemicals have a:

Workplace Exposure Limit? (State opposite)

**1,1,1,2-Tetrafluoroethane** CAS No. 811-97-2, (8 hr TWA ppm) 1000 (8 hr TWA mg/m<sup>3</sup>) 4240

**Propan-2-ol** CAS No. 67-63-0, LTEL (8 hr TWA ppm) 400 LTEL (8 hr TWA mg/m<sup>3</sup>) 999, STEL (ppm) 500, STEL (mg/m<sup>3</sup>) 1250

Is the substance: (Check for an orange 'CHIP' square on the product data sheet or packaging.)

- |   |  |   |   |
|---|--|---|---|
| <input type="checkbox"/> Extremely flammable?         | <input type="checkbox"/> Oxidising?        | <input type="checkbox"/> Very toxic?          | <input type="checkbox"/> Sensitising?                       |
| <input checked="" type="checkbox"/> Highly flammable? | <input type="checkbox"/> Harmful?          | <input type="checkbox"/> Corrosive?           | <input checked="" type="checkbox"/> Other? (Specify below.) |
| <input type="checkbox"/> Flammable?                   | <input checked="" type="checkbox"/> Toxic? | <input checked="" type="checkbox"/> Irritant? | <b>Pressurised container may burst if heated</b>            |
|   |  |   | <b>Harmful to aquatic organisms</b>                         |

Is the substance hazardous to health when:

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> In contact with skin? | <input checked="" type="checkbox"/> Breathed in? | <input type="checkbox"/> Other (Specify below) |
| <input checked="" type="checkbox"/> In contact with eyes? | <input type="checkbox"/> Swallowed?              |  |

## USE OF SUBSTANCE

How should the substance be used? **Sprayed**  
(E.g. diluted in water, applied with a brush, sprayed, etc.)

How much is used every week? **Occasional Use, small quantities**  
(State quantity in litres or kilos as appropriate.)

Who is exposed to the substance? **Personnel using the product.**  
(E.g. those using it, pupils, service users, etc.)

Does the substance present additional risks to certain groups or individuals?  
(E.g. young people, expectant mothers.)

**Not specified on product Safety Data Sheet.**

## CONTROL MEASURES

Can a less hazardous substance be used to do the same job? Yes  No   
(If you don't know, please contact your supplier for further information.)

What controls are required for this substance, other than Personal Protective Equipment (PPE)?  
(E.g. well ventilated areas, not in spray/mist form, mechanical ventilation, authorised persons only.)

**Use only in well-ventilated areas.**

Is any Personal Protective Equipment (PPE) required when using the substance?



- Eye protection? (If eye contact is likely wear protective eyewear, goggles, or safety glasses)



- Gloves? (Wear suitable gloves if prolonged skin contact is likely. Gloves: Nitrile rubber, NBR.)



Overalls/clothing? (State type required)



Mask/respirator? (No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate)



Other? (State type required)

**How should the substance be stored?** (E.g. locked cupboard, away from other substances, etc.)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

NOTE: In summer or on hot days, in cars/vans protect from sunlight and other high temperatures with the use insulator/thermos type bags.

**Please turn over**

**Have persons using this substance been provided with information or training on its use?** Yes   
(As a minimum ensure a copy of this assessment is in a known and readily accessible location.) No

**OTHER PRECAUTIONS AND EMERGENCY PROCEDURES**

**Spillages:** How should an accidental release/spillage of this substance be dealt with?

Ensure adequate ventilation.

Do not allow to enter drains, sewers or watercourses

Do NOT landfill.

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.

**First aid:** What actions should be taken if the substance is:

a) Swallowed?

b) In contact with eyes?

Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses if easy to do.

c) In contact with skin?

Wash with plenty of soap and water.

d) Inhaled?

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

e) Other? (Please specify.)

**Fire precautions:** What actions should be taken in the event of fires involving this substance?

Extinguish with carbon dioxide, dry chemical, foam or waterspray

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions

Heating may cause pressure rise with risk of bursting.

**Chemical reactions:** Is there any other substance that this substance must not come into contact with?

Stable under normal conditions.

**Disposal:** How should the substance be disposed of (or not disposed of)?

Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Disposal should be in accordance with local, state or national legislation.

**Health surveillance:** Do staff using the substance require any health surveillance?

No.

### ASSESSMENT OF RISK

**Are all the controls detailed above currently in place?** Yes  No

**If these controls are not in place, or additional controls are required, state action to be taken.**

**Please note** - COSHH substances must **NOT** be used if adequate control measures are not in place.

| Remedial actions required                | Date for completion |
|--|---------------------|
| <br><br><br><br><br><br><br><br><br><br> |                     |

**Are hazards to health adequately controlled with all control measures in place?** Yes  No

|  |   |                            |
|--|---|----------------------------|
| <b>Assessor(s) name:</b> Chris Ogden   | <b>Assessor(s) signature:</b> Chris Ogden | <b>Date:</b> 01/01/17      |
| The Line Manager should sign below to show that the assessment is a correct and reasonable reflection of the hazards and of the control measures and actions required. |   |                            |
| <b>Line Managers name:</b>   | <b>Line Managers signature:</b>           | <b>Date:</b>               |
| <b>Remedial actions complete:</b> (Date)   | <b>Line Managers signature:</b>           | <b>Reviewed on:</b> (Date) |

**A copy of the product safety data sheet must be attached to this assessment.**