Safe insulation with Polyurethane Spray Foam
**IMPORTANT PROPERTIES**

**A Component**
- Volatile to very volatile
- Often strong smell

**B Component**
- Vapours: max @ ~35°C [limit!!!]
- spray = Aerosol = Higher Risk
- Will react with water → CO₂

**POLYOL**
- Blowing Agent
- Fire Retardant
- Silicones

**DIISOCYANATE**
- Amine Catalyst
- MDI

Read the Safety Data Sheet & Have it available in the workplace
DID YOU READ THE SAFETY DATA SHEET?

Before starting to spray SPF, read the entire SDS - Safety Data Sheet, make sure you understand the content.

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DANGERS

CHEMICAL DANGERS

A Component [Polyol]
B Component [MDI]

EXPOSURE

Inhalation
Skin contact

MINIMISE RISK

Eye, skin, long Irritation, sensitisation

FACT

PREVENT

HEALTH EFFECT

THIS TRAINING WILL HELP TO MINIMISE EXPOSURE

=
WHICH PERSONAL PROTECTION EQUIPMENT?

**WHAT**
- Nitrile, Neoprene, Butyl, PVC
- Tyvek, Kleenguard overboots

**WHERE / WHEN**
- Before During After spraying
- Before During After spraying
- In spray area up to 2h after spraying

Do not take the clothes with you in your house
WHICH PERSONAL PROTECTION EQUIPMENT?

**WHAT**

- Half-face mask with AP3 filter*

**WHERE / WHEN**

- Avoid skin contact when taking off your PPE
- Clean PPE after use – No PPE at home
- Restricted area outside spray area
  Inspections
- Severe Emergency Situation ➔ Complete protection

* For the helper: filter (mask) to be replaced after 1 week (if stored in sealed bag), unless different guidance from supplier

Individual Face Fit Test when using a full face mask
DURING SPRAYING – RENOVATION LIVING AREAS

PASSIVE SUPPLY
Adjust window or other openings to generate a direct air flow

WORKING AREA under pressure

AIR LEAKS
Reduce by plastic foil & tape

EXHAUST FILTERED?
To external location in the building vicinity

VENTILATOR
Flow: min. 0.3 air-changes /hour

Warning
Dangerous chemicals
EMERGENCY KIT

Content safety kit

First aid box
Fire extinguisher
Nitrile, neoprene, butyl rubber or PVC gloves
Tyvek overalls
Mask
Industrial absorbing towels
Eye flush kit
Neutralisation liquid for spills of diisocyanate
  - Water 90 – 95%
  - Natrium carbonate [soda] 5 – 10%
  - Liquid soap 0.2 – 0.5%
Absorbing material (dry sand)
Shovels
Brushes
Waste bags/ Waste container
THE BAD EXAMPLE
1. All chemicals have dangers

Safety Data Sheet: READ – UNDERSTAND – EXECUTE

2. Exposure to these dangers can be prevented

TECHNICAL ORGANISATIONAL PPE’s

3. Protect yourself always where and when needed

4. USE your PPE and maintain them properly

5. Do nothing which can harm yourself or others!

80% of the incidents are behaviour related

SUMMARY
Disclaimer

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