

Safe insulation with Polyurethane Spray Foam

**one
step
ahead**
Safety in Action



Version 2019

IMPORTANT PROPERTIES

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A Component

Amine
Catalyst

- Volatile to very volatile
- Often strong smell

Blowing
Agent

Fire
Retardant

Silicones

B Component

MDI

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

**Read the Safety Data Sheet &
Have it available in the workplace**

POLYOL

DIISOCYANATE

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



Section 1,2,3	Chemical Identification Hazard, Warnings and Composition
Section 4	First Aid
Section 6 & 7	Accidental Releases, Storage and Handling
Section 8	Personal Protection
Section 13	Disposal
Section 5, 9-16	Other information

DANGERS

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FACT

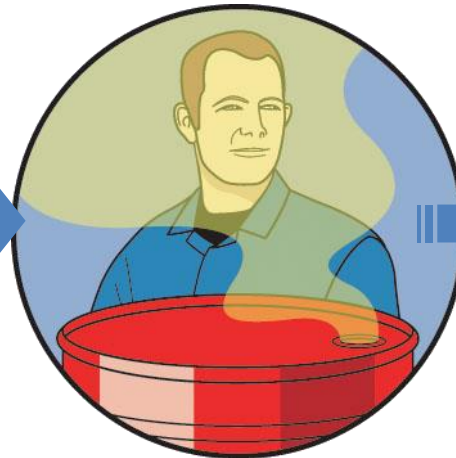
PREVENT

MINIMISE RISK

A Component
[Polyol]
B Component
[MDI]



Inhalation
Skin contact



Eye, skin,
long Irritation,
sensitisation

**CHEMICAL
DANGERS**

EXPOSURE

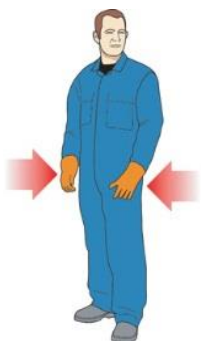
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**HEALTH
EFFECT**

THIS TRAINING WILL HELP TO MINIMISE EXPOSURE

WHICH PERSONAL PROTECTION EQUIPMENT ?

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WHAT

Nitrile,
Neoprene,
Butyl,
PVC

Tyvek,
Kleenguard
overboots

Do not take the clothes with you in your house

Turbohood
Turbomask
Air supply

WHERE / WHEN

Before
During
After spraying

Before
During
After spraying

In spray area
up to
2h after
spraying



WHICH PERSONAL PROTECTION EQUIPMENT?



WHAT

WHERE / WHEN

Avoid skin contact when taking off your PPE
Clean PPE after use – No PPE at home

Half-face
mask with
AP3
filter*

Restricted
area outside
spray area
Inspections

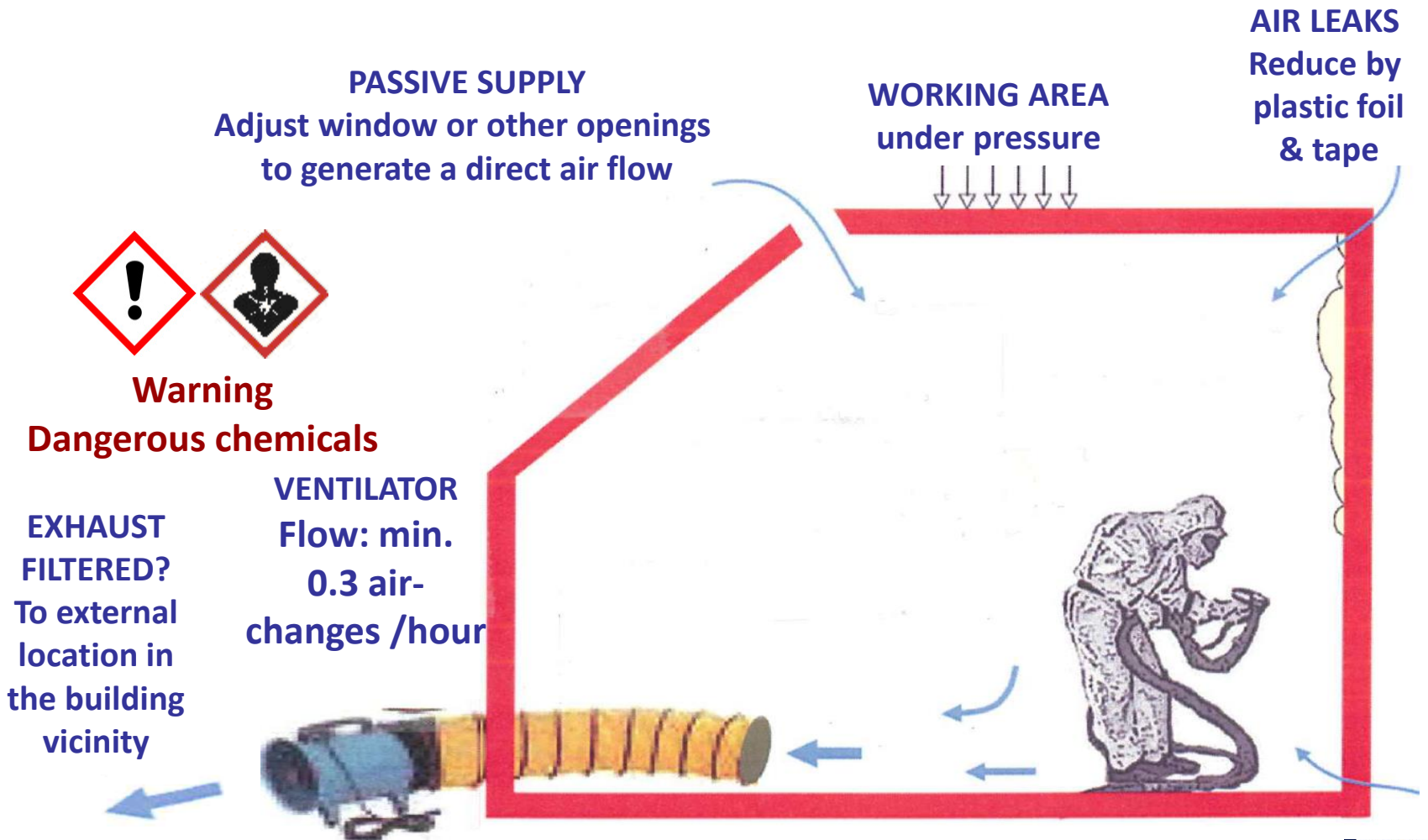


* For the helper: filter (mask) to be replaced after 1 week (if stored in sealed bag), unless different guidance from supplier

Individual Face Fit Test when using a full face mask

Severe Emergency Situation → Complete protection

DURING SPRAYING – RENOVATION LIVING AREAS



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

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SUMMARY

1. All chemicals have dangers

USE THE CORRECT PRODUCTS

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

Disclaimer

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