

Flexalen® HRV

Safety Data Sheet

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Section 1: Identification of the mixture and of the company

1.1. Product identifier

Flexalen® HRV

1.2. Relevant identified uses of the mixture and uses advised against

Pre-insulated ducts system for heat recovery ventilation units to prevent condensation and noise reduction.

1.3. Details of the supplier of the safety data sheet

Thermaflex Isolatie b.v.

Veerweg 1

5145 NS Waalwijk

Tel. +31 416 567 777

Safety responsible : safety officer production site Waalwijk

1.4. Emergency phone number

Thermaflex Isolatie b.v.

+31 416 567 777 (line available 8 a.m. – 5 p.m. on working days)

National Poisons Information Center (NVIC)

+31 30 274 8888 (24 hours, 7 days a week)

Section 2: Hazards identification

2.1. Classification of the mixture

Not a hazardous mixture according to Regulation (EC) No 1272/2008.

2.2. Label elements

Not a hazardous mixture according to Regulation (EC) No 1272/2008. Therefore, no exceptional label elements are needed.

2.3. Other hazards

Flexalen® HRV will burn when provided with an adequate amount of heat and oxygen; therefore do not expose the material to any flame or other source of ignition or heat. Subject to reasonable care and cleanliness. There are no obvious problems associated with the handling of this product.

This product does not contain substances to be PBT or vPvB at levels of 0.1% or higher.

Section 3: Composition/ information on ingredients

3.1. Substances

The product consists of a LDPE foam with a corrugated HDPE outer casing.

3.2. Mixtures

Components

Component	Cas no. EC. No.	Classification (Regulation (EC) no 1272/2008)	Weight %
1-Hexene polymer with ethene	25213-02-9 607-647-3	Not classified	> 60%
Polyethylene	9002-88-4	Not classified	> 35%
Ethylene-1-octene copolymer	2221-73-8	Not classified	< 3%
Additives	-	Not classified	< 2%

Additives can be divided in: colour, nucleators and stabilizers

Section 4: First aid measures

4.1. Description of first aid measures

In general: In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation: Move person to fresh air.

After eye contact: Rinse opened eye for several minutes with running water. Remove contact lenses after a few minutes when possible and applicable.

After skin contact: If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. Do not attempt to remove the material from the skin! Seek medical attention immediately.

After ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate attention and special treatment needed

No further relevant information available.

Section 5: Firefighting measures

5.1. Fire extinguishing media

Water spray, extinguishing foam, CO₂-extinguisher.

5.2. Special hazards arising from the mixture

In case of fire: if smoke gases are inhaled, smoke contains mainly carbon dioxide (CO₂) and carbon monoxide (CO). Remove person to fresh air, coffee and possibly artificial respiration (call immediately a doctor) are the recommended measures. If body skin is burned through contact with molten product: cool burned parts with running water, do not remove the product from the skin. If skin burn grade 2 or 3 is reached: call immediately a doctor.

5.3. Advice for firefighters

Use respirator/oxygen masks in enclosed areas. Avoid dense smoke and do not inhale the smoke from combustion. Use safety glasses and protect skin/body with protective clothing against molten product. Fresh produced product may contain traces of iso-butane.

Section 6: Accidental release measures

Not applicable

Section 7: Handling and storage

7.1. Precautions for safe handling

Practice reasonable care as a normal safety precaution. Fabrication areas should be well ventilated to carry away fumes, vapours and dust. Operatives should be assured of a supply of fresh air. The working environment should be kept clean and free of dust.

7.2. Conditions for safe storage, including any incompatibilities

Practice reasonable care and cleanliness; provide adequate distance between stacks as a safety precaution. Do not expose to any source of flame, ignition or heat. Recommended storage is inside, due to UV light and heat sensitivity. Storage is possible but not advised. It is not recommended to store significant quantities in non-ventilated rooms and near sources of fire due to the possible trace of flammable gases.

7.3. Specific end use(s)

No further relevant information available.

Section 8: Exposure controls/ personal protection

8.1. Control parameters

Not applicable

8.2. Exposure controls

Breathing protection: Use special personal breathing respirator/mask or filter, in special fabrication areas (see 7.1 Handling) that are not well ventilated, in order to protect from fumes, vapours and dust.

Hand protection: Wear gloves (cotton, wool or leather), when working in fabrication areas utilizing heat processes, to prevent from possible thermal injury from hot foam.

Eye protection: Use goggles or face masks, when working in fabrication areas utilizing heat processes, to prevent possible contact with hot foam and thermal injury.

Body protection: Wear clothes and shoes, to protect the full body skin, especially when working in fabrication areas utilizing heat processes, to prevent possible thermal injury (burns).

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: Black flexible corrugated outer casing with grey anthracite foam
Odour	: Odourless
Softening range	: > 95 °C
Autoflammability	: Not determined
Thermal decomposition	: Not determined
Explosive properties	: Not determined

9.2. Other information

The physical properties presented above are typical values and should not be construed as a specification.

Section 10: Stability and reactivity

10.1. Reactivity

Avoid any temperature >160 °C over a period >10 min.
Avoid any contact with strong oxidizing chemicals.

10.2. Chemical stability

Product is chemically stable.

10.3. Possibility of hazardous reaction

No further relevant information available.

10.4. Conditions to avoid

Avoid any contact with strong oxidizing chemicals.
Avoid storage in direct sunlight.

10.5. Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Dangerous or flammable gases and/or vapours in heat fabrication processes, combustion gases in case of fire.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicologically harmless. Polyolefin foams are among the most inert polymer foams and constitute no hazards in terms of normal handling and skin contact.

Section 12: Ecological information

12.1. Toxicity

Environmentally harmless: Insoluble in water: no contamination, insoluble in most solvents. Partly degradable by UV light. Flexalen® HRV is produced (H)CFC free.

12.2. Persistence and degradability

Product does not degrade by itself. Avoid storage outside (UV-light).

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

Not applicable

12.5. Results of PBT and vPvB assessment

PBT : Not applicable

vPvB : Not applicable

12.6. Other adverse effects

No further relevant information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Recycling : 100% recyclable, to be used in own products.

Disposal : When disposing of any wastes, observe all applicable national and local regulations.

Section 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

No restriction and no dangerous material in relation to transportation regulations according to regulations ADR/RID, IMO and IATA

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/ legislation specific for the mixture

None of the present ingredients are listed in the Regulation (EC) No 1907/2006 (REACH) Annex XIV: List of substances subject to authorization.

15.2. Chemical safety assessment

Chemical Safety Assessment isn't available

Section 16: Other information

No further relevant information available.

For additional product information contact Thermaflex Isolatief BV.