



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

FLAMRO Variant N II A / Flamro Variant N EC / FLAMRO Variant N III wrap / FLAMRO Variant N-RM

Further trade names

System designation: Fire protection collar FLAMRO variant N II A / Flamro variant N EC / FLAMRO variant N III wrap / FLAMRO Variant N-RM, comprising of a metal housing with a fire protection insert.

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

Use of the substance/mixture

Structural fire protection

Pipe seals

1.3. Details of the supplier of the safety data sheet

Company name: FLAMRO Brandschutz-Systeme GmbH

Street: Am Sportplatz 2

Place: D-56291 Leinigen

Telephone: +49 (0) 6746 9410-0

Telefax: +49 (0) 6746 9410-10

e-mail: info@flamro.de

Responsible Department:

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone

number:

INTERNATIONAL: +49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

In England and Wales: 111, In Scotland: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture according to 1272/2008/EC

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

The products are not subject to a labelling obligation according to EC regulations.

2.3. Other hazards

Not applicable. Ready for use product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Fire protection insert: Mixture of inorganic compounds in a polymer matrix.

Ready for use product: Fire protection strips + metal frame, if required

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

The first-aid measures refer to the contact with dust arising during the processing of the product (e.g. sawing, drilling, grinding).

After inhalation

Do not breathe dust. In case of inhaling dust (possibly caused by abrasion) the affected person should be moved into fresh air. In case of unwellness seek medical advice.

After contact with skin

Remove contaminated soaked clothing immediately and dispose of safely. Wash off immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After contact with eyes

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials. Remove contact lens. Rinse thoroughly with plenty of water, also under the eyelids. Summon a doctor immediately.



After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

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

See also chapter: 4.1, 11. Possible symptoms: irritation of skin and the eyes.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The products themselves are not combustible. Fire-extinguishing activities according to surrounding.

Unsuitable extinguishing media

Not known.

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

Protective equipment has to be chosen according to the ambient conditions.

Additional information

Product itself does not burn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid the formation and deposition of dust. Do not breathe dust. Use breathing apparatus if exposed to dust.

6.2. Environmental precautions

Dispose of in closed containers. Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Do not stir up dust. Pick up mechanically, avoiding dust, and provide disposal in suitable recipients. Must avoid the use of compressed air and sweeping.

6.4. Reference to other sections

Information for personal protective equipment look up chapter 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Avoid dust formation.

Advice on protection against fire and explosion

No specific fire preventions necessary. Pay attention to general rules of internal fire prevention.

Further information on handling

Take the usual precautions when handling with chemicals. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs. Remove contaminated soaked clothing immediately, don't leave to dry.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Avoid damage when handling and opening the packaging.

Advice on storage compatibility

Do not store together with food.

Further information on storage conditions

Protect from heat and direct solar radiation. Keep from freezing. To be kept tightly closed, in a cool and dry place.

7.3. Specific end use(s)

Structural fire protection, Sealing of feedthroughs for pipes through walls and ceilings.

Fire protection strips/fire protection inserts:



under influence of temperature intumescent building material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

Technical and organisational measures must be applied preferentially (personal protection equipment must not be a permanent arrangement). Avoid the formation and deposition of dust.

Protective and hygiene measures

Take the usual precautions when handling with chemicals.

Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove contaminated soaked clothing immediately.

Eye/face protection

Eye wash bottle with pure water (EN 15154).

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves (EN 374) Safety gloves for the site (EN420, Cat. 1 or 2).

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nature latex, 0,6 mm, 480 min., 60 min., i.e. protective glove made by www.kcl.de.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Wear closed/long working clothes.

Respiratory protection

Breathing apparatus (particle filter P2) only if dust is formed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid matter (Fire protection strips/fire protection inserts)
Colour:	according to product specification
Odour:	faint, characteristic

pH-Value: not applicable in delivery state.

Changes in the physical state

Melting point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	Not applicable
Explosive properties	The product is not explosive.
Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined
Oxidizing properties	The product is not self-igniting
Density (at 20 °C):	approx. 1,20 g/cm ³
Water solubility: (at 20 °C)	insoluble
Solubility in other solvents	Not determined
Viscosity / dynamic: (at 20 °C)	Not determined
Viscosity / kinematic:	Not determined

9.2. Other information

No data available.



SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

carbon monoxide (CO), carbon dioxide (CO₂), Hydrocarbon fragments.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No toxicological data available.

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Release of dust may result from mechanical processing. Dust particles, like other inert materials, are mechanically irritating to the eyes. Repeated or prolonged exposure may cause irritation of the eyes and skin.

Sensitising effects

Based on available data, the classification criteria are not met.

No sensitizing effect known.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

If appropriately handled and in accordance with the general hygienic rules, no damages to health have become known.

Classification in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

Not readily degradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.



12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT substance.

12.6. Other adverse effects

Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Disposal in accordance with local regulations.

The waste code number must be agreed with the disposer / manufacturer / competent authority.

Contaminated packaging

Uncontaminated packaging may be reused. Totally emptied packaging may be taken for recycling.

SECTION 14: Transport information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO-TI/IATA-DGR); Inland waterways transport (ADN):

14.1. UN number:

Not applicable. No hazardous material as defined by the transport regulations.

14.2. UN proper shipping name:

Not applicable. No hazardous material as defined by the transport regulations.

14.3. Transport hazard class(es):

Not applicable. No hazardous material as defined by the transport regulations.

14.4. Packing group:

Not applicable. No hazardous material as defined by the transport regulations.

14.5. Environmental hazards

Not applicable. No hazardous material as defined by the transport regulations.

14.6. Special precautions for user

Not applicable. No hazardous material as defined by the transport regulations.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable. No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): < 1 %

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk



GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)