



Material Safety Data Sheet

SECTION 1: Identification of the substance/mixture

1.1 Product identifier

Fyrewrap IG

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

Paper for use as heat insulation, heat shield, heat collector, seals and expansion joints in industrial furnaces. Fire resistant material for furnaces, boilers, and other process equipment as well as aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

Note: This product is an "article" and is not an object that is required to issue Safety Data Sheets (SDS) by regulations concerning chemical substances. This SDS voluntarily offers helpful information for your safe handling and environmental care.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Additional advice on labelling

The product does not require a hazard warning label in accordance with EC directives.

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

2.3. Other hazards

Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Article. Paper for use as heat insulation, heat shield, heat collector, seals and expansion joints in industrial furnaces. Fire resistant material for furnaces, boilers, and other process equipment as well as aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

The product contains: Acrylic-latex bound AES-wool (Calcium-Magnesium-Silicate (alkaline -earth silicate fiber), CAS-No.: 436083-99-7, REACH registration number: 01-2119457644-32).

Further Information

None of the ingredients are radioactive according to the EU Directive EURATOM 96/29.

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 clothes and wash before re-use. 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**

Product itself does not burn. Fire-extinguishing activities according to surrounding.

Suitable extinguishing media

Product itself does not burn. 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**

Protect against physical damage.

Advice on storage compatibility

Do not store with acids. Do not store together with food.

Further information on storage conditions

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

7.3. Specific end use(s)

Paper for use as heat insulation, heat shield, heat collector, seals and expansion joints in industrial furnaces. Fire resistant material for furnaces, boilers, and other process equipment as well as aerospace equipment, automotive and household appliance industries as well as fire protection systems or fire wall protection.

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). Ensure adequate ventilation, especially in confined areas. 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 clothes and wash before re-use.

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).

Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374): Nitrile rubber/nitrile latex - NBR (0,35 mm)

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
Colour:	White
Odour:	faint
pH-Value:	Not applicable

SECTION 9: Physical and chemical properties

Changes in the physical state

Melting point:	> 1200 °C
Initial boiling point and boiling range:	Not applicable
Flash point:	Not applicable
Lower explosion limits:	Not determined
Upper explosion limits:	Not determined
Density (at 20 °C):	0,2 - 0,3 g/cm ³
Water solubility:(at 20 °C)	< 0,001 g/L
Solubility in other solvents	Not determined
Ignition temperature:	Not applicable
Explosive properties	The product is not explosive.
Decomposition temperature:	Not determined
Viscosity / dynamic:(at 20 °C)	Not determined
Viscosity / kinematic:	Not determined
Oxidizing properties	The product is not self-igniting

9.2. Other information

Fiber diameter: 1,4 - 3 µm

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

Prolonged thermal exposure above 900 °C converts the amorphous material into crystalline material.

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

The oxidation products of the resin binder produced during the first heating temperature range of 180°C to a maximum of 600°C will be partly emitted as flue gases to the ambient air. Ensure adequate ventilation, especially in confined areas. Avoid exposure - before application obtain special instructions.

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.

Breathing dust and fibres may cause temporary irritation to mouth, nose and throat. Ingestion of dust and fibres may cause temporary mechanical irritation of the digestive system. Prolonged contact may irritate skin. Do not rub eyes - contains inorganic fillers, which irritate the eyes mechanically like other inert materials.

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 if 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

chemically inert

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.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); 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 MARPOL73/78 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

Additional information

This substance is not classified as dangerous in according to Directive 67/548/EEC.

This substance is not classified as dangerous in according to Regulation (EC) No 1272/2008. (GHS)

(Not skin irritating. No references to carcinogenic toxic effects.)

National regulatory information

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

DOT = Department of Transportation

TDG = Transport of Dangerous Goods

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)