SAFETY DATA SHEET

Based on Regulation (EC) no. 1907/2006 (REACH) Article 31 and Annex II

Firecryl FR

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:
Product name : Firecryl FR

1.2 Use of the substance/preparation:
Sealant

1.3 Company/undertaking identification:
SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
Tel: +32 14 42 42 31
Fax: +32 14 44 39 71
e-mail address: msds@soudal.com

1.4 Emergency telephone:
+32 14 58 45 45 (24h/24h)
Information centre on dangerous goods (BIG)
Technische Schoolstraat 43 A, B-2440 Geel, Belgium

2. Hazards identification

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc.(%)	Hazards (R-phrases)	Hazard symbol
low boiling point hydrogen treated naphtha (Conc benzene <0.1%)	64742-82-1 265-185-4	0.1 - <1	10-51/53-65-66-67 (1)(2) (Labelling in compliance with CONCAWE)	Xn;N

(1) For R-phrases in full: see heading 16
(2) Substance with a Community workplace exposure limit
(3) PBT-substance

4. First aid measures

4.1 After inhalation:
- Remove the victim into fresh air
- Respiratory difficulties: consult a doctor/medical service

4.2 Skin contact:
- Rinse with water
- Take victim to a doctor if irritation persists

4.3 Eye contact:
- Rinse with water
- Take victim to an ophtalmologist if irritation persists

4.4 After ingestion:
- Rinse mouth with water
- If you feel unwell: consult a doctor/medical service

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Extinguishing media for surrounding fires: all extinguishing media allowed

5.2 Unsuitable extinguishing media:
- No data available

5.3 Special exposure hazards:
- On burning: release of toxic and corrosive gases/vapours: hydrogen chloride, and formation of small quantities of phosphorus oxides, nitrous vapours, sulphur oxides, carbon monoxide and carbon dioxide

5.4 Instructions:
- Dilute toxic gases with water spray

5.5 Special protective equipment for fire-fighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Protective clothing

6. Accidental release measures

6.1 Personal precautions:
See heading 8.2/13

6.2 Environmental precautions:
- Use appropriate containment to avoid environmental contamination

6.3 Methods for cleaning up:
- Shovel solid spill into closing drums
- Clean contaminated surfaces with a soap solution
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe normal hygiene standards

7.2 Storage:
- Store at room temperature
- Store in a dry area

- Keep away from: heat sources

Storage temperature	:	N.D.	**°C**
Quantity limit	:	N.D.	**kg**
Storage life	:	365	**days**
Materials for packaging	:		
- suitable : plastic			

7.3 Specific use(s):
- See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

LOW BOILING POINT HYDROGEN TREATED NAPHTHA:

TLV-TWA	: (5)	**mg/m³**		**ppm**
TLV-STEL	: (10)	**mg/m³**		**ppm**
TLV-Ceiling	:	**mg/m³**		**ppm**
WEL-LTEL	:	**mg/m³**		**ppm**
WEL-STEL	:	**mg/m³**		**ppm**
TRGS 900	:	**mg/m³**		**ppm**
MAK	:	**mg/m³**		**ppm**
MAC-TGG 8 h	: 5 on	**mg/m³**		
MAC-TGG 15 min.	:	**mg/m³**		
MAC-Ceiling	:	**mg/m³**		
VME-8 h	:	**mg/m³**		**ppm**
VLE-15 min.	:	**mg/m³**		**ppm**
GWBB-8 h	: 5 on	**mg/m³**	-	**ppm**
GWK-15 min.	: 10 on	**mg/m³**	-	**ppm**
Momentary value	:	**mg/m³**		**ppm**
EC	:	**mg/m³**		**ppm**
EC-STEL	:	**mg/m³**		**ppm**

8.1.2 Sampling methods:

- No data available

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Work under local exhaust/ventilation

Personal protective equipment:

a)Respiratory protection:
- Respiratory protection not required for normal conditions of use

b)Hand protection:
- Gloves

c)Eye protection:
- No data available

d)Skin protection:
- Protective clothing

8.2.2 Environmental exposure controls: see heading 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Paste	
Odour	: Characteristic	
Colour	: Variable in colour	

9.2 Important health, safety and environmental information:

pH value (at 20°C)	: N.D.	
Boiling point/boiling range	: N.D.	**°C**
Flashpoint/flammability	: N.D.	**°C**
Explosion limits (explosive properties)	: N.D.	**Vol%**
Oxidising properties	: N.D.	
Vapour pressure (at 20°C)	: N.D.	**hPa**
Vapour pressure (at 50°C)	: N.D.	**hPa**
Relative density (at 20°C)	: 1.39	
Water solubility	: Insoluble	
Soluble in	: No data available	
Relative vapour density	: N.D.	
Viscosity (at °C)	: N.D.	**Pa.s**
Partition coefficient n-octanol/water	: N.D.	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: N.D.	**°C**
Auto-ignition point	: N.D.	**°C**
Saturation concentration	: N.D.	**g/m^3**
Specific conductivity	: N.D.	**pS/m**

10. Stability and reactivity

10.1 Conditions to avoid:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources

10.3 Hazardous decomposition products:
- On burning: release of toxic and corrosive gases/vapours: hydrogen chloride, and formation of small quantities of phosphorus oxides, nitrous vapours, sulphur oxides, carbon monoxide and carbon dioxide

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	:	N.D.	**mg/kg**
LD50 dermal rabbit	:	N.D.	**mg/kg**
LD50 dermal rabbit	:	N.D.	**mg/kg**
LC50 inhalation rat	:	N.D.	**mg/l/4 h**
LC50 inhalation rat	:	N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	not listed
EC muta. cat.	:	not listed
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	not listed
Carcinogenicity (MAC)	:	not listed
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	not listed
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	not listed
IARC classification	:	not listed

11.3 Routes of exposure: ingestion, inhalation, eye and skin

11.4 Acute effects/symptoms:
AFTER EYE CONTACT:
- Slight irritation

11.5 Chronic effects:
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)
- Not classified as toxic to reproduction (EC)

12. Ecological information

12.1 Ecotoxicity:
No data available

- **Effect on waste water purification** : No data available

12.2 Mobility:
- **Volatile organic compounds (VOC):** 2%
- Insoluble in water
- Substance sinks in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- **Biodegradation BOD_5** : N.D. **% ThOD**
- **Water** : No data available
- **Soil** : **T ½** N.D. **days**

12.4 Bioaccumulative potential:

- **log P_{ow}** : N.D.
- **BCF** : N.D.

12.5 Results of PBT assessment:
- Not applicable, on the basis of the available data.

12.6 Other adverse effects:

- **WGK** : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (1999/45/EC)
- **Greenhouse effect** : No data available

13. Disposal considerations

13.1 Provisions relating to waste:
- Waste material code (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09)
- LWCA (the Netherlands): KGA category 04

13.2 Disposal methods:
- Remove to an incinerator for chlorinated waste materials with energy recovery

13.3 Packaging:
- Waste material code packaging (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 02 (plastic packaging)

14. Transport information

14.1 Classification of the substance in compliance with UN Recommendations

UN number	:	-
CLASS	:	NOT SUBJECT
SUB RISKS	:	
PACKING GROUP	:	

14.2 ADR (transport by road)

CLASS	:	NOT SUBJECT
PACKING GROUP	:	
CLASSIFICATION CODE	:	
DANGER LABEL TANKS	:	
DANGER LABEL PACKAGES	:	
PROPER SHIPPING NAME	:	

14.3 RID (transport by rail)

CLASS	:	NOT SUBJECT
PACKING GROUP	:	
CLASSIFICATION CODE	:	
DANGER LABEL TANKS	:	
DANGER LABEL PACKAGES	:	
PROPER SHIPPING NAME	:	

14.4 ADNR (inland navigation)

CLASS	:	NOT SUBJECT
PACKING GROUP	:	
CLASSIFICATION CODE	:	
DANGER LABEL TANKS	:	
DANGER LABEL PACKAGES	:	

14.5 IMDG (maritime transport)

CLASS	:	NOT SUBJECT
SUB RISKS	:	
PACKING GROUP	:	
MFAG	:	
EMS	:	
MARINE POLLUTANT	:	

14.6 ICAO (air freight)

CLASS	:	NOT SUBJECT
SUB RISKS	:	
PACKING GROUP	:	
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:	
PACKING INSTRUCTIONS CARGO AIRCRAFT	:	

14.7 Special precautions	:	Not restricted for any mode of international transport

15. Regulatory information

15.1 EU Legislation:

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

NOT REQUIRED ACCORDING TO AVAILABLE INFORMATION

15.2 National provisions:

the Netherlands:
Waterbezwaarlijkheid: 11

Germany:
WGK : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

16. Other information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

Exposure limits:

TLV	:	Threshold Limit Value - ACGIH US
WEL	:	Workplace Exposure Limits - United Kingdom
TRGS 900	:	Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany
MAK	:	Maximale Arbeitsplatzkonzentrationen - Germany
MAC	:	Maximale aanvaarde concentratie - the Netherlands
VME	:	Valeurs limites de Moyenne d'Exposition - France
VLE	:	Valeurs limites d'Exposition à court terme - France
GWBB	:	Grenswaarde beroepsmatige blootstelling - Belgium
GWK	:	Grenswaarde kortstondige blootstelling - Belgium
EC	:	Indicative occupational exposure limit values - directive 2000/39/EC

I : Inhalable fraction = **T** : Total dust = **E** : Einatembarer Aerosolanteil
R : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a:	aerosol		**r:**	rook/Rauch	(fume)
d:	damp	(vapour)	**st:**	stof/Staub	(dust)
du:	dust		**ve:**	vezel	(fibre)
fa:	Faser	(fibre)	**va:**	vapour	
fi:	fibre		**om:**	oil mist	
fu:	fume		**on:**	olienevel/Ölnebel	(oil mist)
p:	poussière	(dust)	**part:**	particles	

Chronic toxicity:
K : List of the carcinogenic substances and processes - The Netherlands

Full text of any R-phrases referred to under headings 2 and 3:

R10	: Flammable
R51/53	: Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R65	: Harmful: may cause lung damage if swallowed
R66	: Repeated exposure may cause skin dryness or cracking
R67	: Vapours may cause drowsiness and dizziness