

ACRYLITOP PC-100

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

1.1 Identification of the substance or preparation:

Synonyms: Acrylic Coating PC-100
 CAS No. : N.A.
 EC index No. : N.A. NFPA code : N.D.
 EINECS No. : N.A. Molecular weight : N.A.
 RTECS No. : N.A. Formula : N.A.

1.2 Use of the substance or the preparation:

Paint
Coating

1.3 Company/undertaking identification:

Firestone Building Products
 Ikaroslaan 75
 B-1930 Zaventem
 Tel. : +32 2 711 44 50
 Fax : +32 2 721 27 18
 Email: info@fbpe.be

1.4 Telephone number for emergency:

+32 70 245 245
 Poison Centre
 p/a Militair Hospitaal Koningin Astrid, Bruynstraat 1, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
1,2-ethanediol	107-21-1 203-473-3	<8	Xn	22 (1)
titanium dioxide	13463-67-7 236-675-5	<18	-	-
zinc oxide	1314-13-2 215-222-5	<8	N	50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:

- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:

- Consult a doctor/medical service if irritation persists
- Wash with water and soap

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4.3 After inhalation:

- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:

- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person
- Do not induce vomiting

5. Fire-fighting measures

5.1 Suitable extinguishing media:

- Alcohol-resistant foam
- BC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:

- No data available

5.3 Special exposure hazards:

- Combustible
- On burning: release of toxic and corrosive gases/vapours (zinc oxide, nitrous vapours, carbon monoxide - carbon dioxide)

5.4 Instructions:

- Take account of environmentally hazardous firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:

- Heat/fire exposure: compressed air/oxygen apparatus
- Protective clothing for exposure to chemicals

6. Accidental release measures

6.1 Personal protection/precautions:

See heading 8.2/8.3/13

6.2 Environmental precautions:

- Prevent soil and water pollution
- Prevent spreading in sewers
- Contain released substance, pump over in suitable containers
- Plug the leak, cut off the supply
- Dam up the liquid spill

6.3 Methods for cleaning up:

- Warning! Product may cause floors to be slippery
- Take up liquid spill into inert absorbent material, e.g.: sand/earth
- Scoop absorbed substance into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

- Observe normal hygiene standards
- Do not discharge the waste into the drain
- Clean contaminated clothing

7.2 Storage:

- Keep container tightly closed
- Store at room temperature
- Ventilation at floor level
- Protect against frost.
- Keep away from: heat sources

Storage temperature	: 15/25	°C
Quantity limits	: N.D.	kg
Storage life	: 270	days

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Materials for packaging :
 - suitable :no data available
 - to avoid :no data available

7.3 Specific uses:
 - See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

1,2-ethanediol

TLV-TWA	: -	mg/m ³		ppm
TLV-STEL	: -	mg/m ³		ppm
TLV-Ceiling	: 100 aerosol	mg/m ³		ppm
OES-LTEL	: 10 part/52 va	mg/m ³	- part/20 va	ppm
OES-STEL	: -part/104 va	mg/m ³	- part/40 va	ppm
MAK	: 26	mg/m ³	10	ppm
TRK	:	mg/m ³		ppm
MAC-TGG 8 h	: 52 damp	mg/m ³		
MAC-TGG 15 min.	: 104 damp	mg/m ³		
MAC-Ceiling	:	mg/m ³		
VME-8 h	: 52 vapeur	mg/m ³	20 vapeur	ppm
VLE-15 min.	: 104 vapeur	mg/m ³	40 vapeur	ppm
GWBB-8 h	: 52	mg/m ³	20	ppm
GWK-15 min.	: 104	mg/m ³	40	ppm
Momentary value	: M	mg/m ³	M	ppm
EC	: 52	mg/m ³	20	ppm
EC-STEL	: 104	mg/m ³	40	ppm

titanium dioxide

TLV-TWA	: 10	mg/m ³		ppm
TLV-STEL	: -	mg/m ³		ppm
TLV-Ceiling	:	mg/m ³		ppm
OES-LTEL	: 4 R/10 I	mg/m ³	-	ppm
OES-STEL	: -	mg/m ³	-	ppm
MAK	: 1.5 A	mg/m ³		ppm
TRK	:	mg/m ³		ppm
MAC-TGG 8 h	: 10	mg/m ³		
MAC-TGG 15 min.	:	mg/m ³		
MAC-Ceiling	:	mg/m ³		
VME-8 h	: 10(Ti)	mg/m ³	-(Ti)	ppm
VLE-15 min.	: -(Ti)	mg/m ³	-(Ti)	ppm
GWBB-8 h	: 10	mg/m ³	-	ppm
GWK-15 min.	: -	mg/m ³	-	ppm
Momentary value	:	mg/m ³		ppm
EC	:	mg/m ³		ppm
EC-STEL	:	mg/m ³		ppm

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zinc oxide

TLV-TWA	: 2 R	mg/m ³	ppm
TLV-STEL	: 10 R	mg/m ³	ppm
TLV-Ceiling	:	mg/m ³	ppm
OES-LTEL	:	mg/m ³	ppm
OES-STEL	:	mg/m ³	ppm
MAK	: 1 A Rauch	mg/m ³	ppm
TRK	:	mg/m ³	ppm
MAC-TGG 8 h	: 5 rook	mg/m ³	
MAC-TGG 15 min.	:	mg/m ³	
MAC-Ceiling	:	mg/m ³	
VME-8 h	: 5 fu/10 p	mg/m ³	- ppm
VLE-15 min.	: -	mg/m ³	- ppm
GWBB-8 h	: 5 r/10 stof	mg/m ³	- ppm
GWK-15 min.	: - st/10 rook	mg/m ³	- ppm
Momentary value	:	mg/m ³	ppm
EC	:	mg/m ³	ppm
EC-STEL	:	mg/m ³	ppm

Sampling methods:

- No data available

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:

- Insufficient ventilation: wear respiratory protection

8.3.2 hand protection:

- Gloves
Suitable materials: Neoprene
Nitrile rubber
- Breakthrough time: N.D.

8.3.3 eye protection:

- Safety glasses

8.3.4 skin protection:

- Protective clothing
Suitable materials: Neoprene
Nitrile rubber

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9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C) : Liquid
Odour : Mild
Colour : White-grey to light-brown

9.2 Important health, safety and environmental information:

pH value : N.D.
Boiling point/boiling range : > 100 °C
Flashpoint : 115 °C
Explosion limits : N.D. vol% (°C)
Vapour pressure (at 20°C) : N.D. hPa
Vapour pressure (at 50°C) : N.D. hPa
Relative density (at 20°C) : 1.4
Water solubility : Moderately soluble
Soluble in : N.D.
Relative vapour density : > 2
Viscosity : N.D. Pa.s
Partition coefficient n-octanol/water : N.D.
Evaporation rate :
ratio to butyl acetate : < 1
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/m³

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- 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 (zinc oxide, nitrous vapours, carbon monoxide - carbon dioxide)

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : N.D. mg/kg
LD50 dermal rat : 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) : A4 (1,2-ethanediol)(titanium dioxide)
Carcinogenicity (MAC) : not listed
Carcinogenicity (VME) : not listed
Carcinogenicity (GWBB) : not listed

Carcinogenicity (MAK) : not listed
Mutagenicity (MAK) : not listed
Teratogenicity (MAK) : C (1,2-ethanediol)(titanium dioxide)

IARC classification : 3(titanium dioxide)

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

11.4 Acute effects/symptoms:

- **AFTER INHALATION**
- Slight irritation

- **AFTER INGESTION**
- AFTER ABSORPTION OF HIGH QUANTITIES:
- CNS depression
- Decreased renal function

- **AFTER SKIN CONTACT**
- Slight irritation

- **AFTER EYE CONTACT**
- Slight irritation

11.5 Chronic effects:

- Contains a substance of group C (MAK-Schwangerschaftsgruppe)(1,2-ethanediol)(titanium dioxide)
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)

12. Ecological information

12.1 Ecotoxicity:

zinc oxide:

- EC50 (48 h) : 0.068 mg/l (DAPHNIA MAGNA)

12.2 Mobility:

- Volatile organic compounds (VOC): N.D.%
- Moderately soluble in water
- Substance sinks in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- biodegradation BOD₅ : 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 Other adverse effects:

- WGK : 3 (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
- Effect on waste water purification : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 01 11* (waste paint and varnish containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

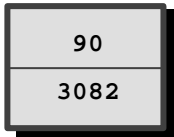
13.2 Disposal methods:

- Recycle/reuse
- Do not discharge into the sewer
- Do not discharge into surface water

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

14. Transport information



- 14.1 Classification of the substance in compliance with UN Recommendations
 UN number : 3082
 CLASS : 9
 SUB RISKS : -
 PACKING : III
 PROPER SHIPPING NAME :
 UN 3082, Environmentally hazardous substance, liquid, n.o.s.
 (zinc oxide)
- 14.2 ADR (transport by road)
 CLASS : 9
 PACKING : III
 CLASSIFICATION CODE : M6
 DANGER LABEL TANKS : 9
 DANGER LABEL PACKAGES : 9
- 14.3 RID (transport by rail)
 CLASS : 9
 PACKING : III
 CLASSIFICATION CODE : M6
 DANGER LABEL TANKS : 9
 DANGER LABEL PACKAGES : 9
- 14.4 ADNR (transport by inland waterways)
 CLASS : 9
 PACKING : III
 CLASSIFICATION CODE : M6
 DANGER LABEL TANKS : 9
 DANGER LABEL PACKAGES : 9
- 14.5 IMDG (maritime transport)
 CLASS : 9
 SUB RISKS : -
 PACKING : III
 MFAG : -
 EMS : F-A, S-F
 MARINE POLLUTANT : -
- 14.6 ICAO (air transport)
 CLASS : 9
 SUB RISKS : -
 PACKING : III
 PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 914/Y914
 PACKING INSTRUCTIONS CARGO AIRCRAFT : 914
- 14.7 Special precautions in connection with transport : none
- 14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
 each package shall display a diamond-shaped figure with the following inscription:
 - 'UN 3082'
 or, in the case of different goods with different identification numbers within a single package:
 - the letters 'LQ'

15. Regulatory information

Classification according to directives 67/548/EEC and 1999/45/EC



Dangerous for the environment

- R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS 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)

Exposure limits:

- TLV** : Threshold Limit Value - ACGIH USA
OES : Occupational Exposure Standards - United Kingdom
MEL : Maximum Exposure Limits - United Kingdom
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
TRK : Technische Richtkonzentrationen - 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 heading 2:

- R22 : Harmful if swallowed
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment