

# SAFETY DATA SHEET of: ProFast Topcoat 70-C hardener

Revision date: Thursday, August 9, 2018

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

#### 1.1 Product identifier:

# ProFast Topcoat 70-C hardener

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

1

Concentration in use: /

#### 1.3 Details of the supplier of the safety data sheet:

#### **PROKOL**

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#### 1.4 Emergency telephone number:

+313 02 74 88 88

# 2 SECTION 2: Hazards identification:

## 2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H317 Skin Sens. 1 H332 Acute tox. 4 H335 STOT SE 3

#### 2.2 Label elements:

Pictograms:



Signal word:

#### Warning

#### Hazard statements:

**H317 Skin Sens. 1:** May cause an allergic skin reaction.

H332 Acute tox. 4: Harmful if inhaled.

**H335 STOT SE 3:** May cause respiratory irritation.

## Precautionary statements:

**P261:** Avoid breathing dust/vapours/spray.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

#### Contains:

Hexamethylene diisocyanate Hexamethylene diisocyanate polymer

#### 2.3 Other hazards:

none

# 3 SECTION 3: Composition/information on ingredients:

Hexamethylene diisocyanate polymer	≤ 100 %	CAS number: EINECS: REACH Registration number: CLP Classification:	28182-81-2 01-2119485796-17 H317 Skin Sens. 1 H332 Acute tox. 4 H335 STOT SE 3
diisopropyl-1,1'-biphenyl	≤ 5 %	CAS number: EINECS: REACH Registration number: CLP Classification:	69009-90-1 273-683-8 H304 Asp. Tox. 1 H373 STOT RE 2 H413 Aquatic Chronic 4
Hexamethylene diisocyanate	≤ 0.2 %	CAS number: EINECS: REACH Registration number: CLP Classification:	822-06-0 212-485-8 01-2119457571-37 H315 Skin Irrit. 2 H317 Skin Sens. 1 H319 Eye Irrit. 2 H331 Acute tox. 3 H334 Resp. Sens. 1 H335 STOT SE 3

For the full text of the H phrases mentioned in this section, see section 16.

# 4 SECTION 4: First aid measures:

#### 4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact: remove contaminated clothing, rinse with plenty of water, if necessary seek medical

attention.

Eye contact: first prolonged rinsing with water (contact lenses to be removed if this is easily done)

then take to physician.

**Ingestion:** rinse mouth, do not induce vomiting, take to hospital immediately.

**Inhalation:** let sit upright, fresh air, rest and take to hospital.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Skin contact: redness, pain

**Eye contact:** redness, pain, blurred vision

Ingestion: diarrhoea, headache, abdominal cramps, sleepiness, vomiting

**Inhalation:** sore throat, cough, shortness of breath, headache

#### 4.3 Indication of any immediate medical attention and special treatment needed:

none

# 5 SECTION 5: Fire-fighting measures:

#### 5.1 Extinguishing media:

CO2, foam, powder, sprayed water

#### 5.2 Special hazards arising from the substance or mixture:

none

## 5.3 Advice for firefighters:

Extinguishing agents to be

none

avoided:

## 6 SECTION 6: Accidental release measures:

### 6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up windRemove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

## 6.2 Environmental precautions:

do not allow to flow into sewers or open water.

#### 6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible remove by using absorbent material.

#### 6.4 Reference to other sections:

for further information check sections 8 & 13.

# 7 SECTION 7: Handling and storage:

#### 7.1 Precautions for safe handling:

handle with care to avoid spillage.

#### 7.2 Conditions for safe storage, including any incompatibilities:

keep in a sealed container in a closed, frost-free, ventilated room.

#### 7.3 Specific end use(s):

/

# 8 SECTION 8: Exposure controls/personal protection:

#### 8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

Hexamethylene diisocyanate 0.034 mg/m³

#### 8.2 Exposure controls:

Inhalation protection:	if necessary, use an air-purifying face mask in case of respiratory hazards.	
Skin protection:	handling with Viton-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	
Other protection:	impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

# 9 SECTION 9: Physical and chemical properties:

# 9.1 Information on basic physical and chemical properties:

Melting point/melting range:

**Boiling point/Boiling range**: 82 °C — 285 °C

pH: pH 1% diluted in water:

Vapour pressure/20°C,:

1 420 Pa

Vapour density:

Relative density, 20°C:

Appearance/20°C:

Iiquid

Flash point:

/

Flammability (solid, gas): not applicable

Auto-ignition temperature: 370 °C
Upper flammability or explosive 15.000 %

limit, (Vol %):

Lower flammability or explosive 1

limit, (Vol %):

1.000 %

Explosive properties: not applicable

Oxidising properties: not applicable

Decomposition temperature:

Solubility in water: not soluble

Partition coefficient: n- not applicable

octanol/water:

Odour: characteristic
Odour threshold: not applicable
Dynamic viscosity, 20°C: 1 mPa.s
Kinematic viscosity, 40°C: 1 mm²/s

Evaporation rate (n-BuAc = 1): /

#### 9.2 Other information:

Volatile organic component (VOC): 0.19 % Volatile organic component (VOC): 2.147 g/l

Sustained combustion test: /

# 10 SECTION 10: Stability and reactivity:

#### 10.1 Reactivity:

stable under normal conditions.

#### 10.2 Chemical stability:

extremely high or low temperatures.

# 10.3 Possibility of hazardous reactions:

none

#### 10.4 Conditions to avoid:

protect from sunlight and do not expose to temperatures exceeding + 50°C.

#### 10.5 Incompatible materials:

alkalines, water, acids, organic matter, oxidants, reductants

#### 10.6 Hazardous decomposition products:

doesn't decompose with normal use

# 11 SECTION 11: Toxicological information:

#### 11.1 Information on toxicological effects:

**H317 Skin Sens. 1:** May cause an allergic skin reaction.

H332 Acute tox. 4: Harmful if inhaled.

**H335 STOT SE 3:** May cause respiratory irritation.

Calculated acute toxicity, ATE oral: /
Calculated acute toxicity, ATE /

dermal:

Hexamethylene diisocyanate polymer	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5 000 mg/kg ≥ 5 000 mg/kg 11 mg/l
diisopropyl-1,1'-biphenyl	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5 000 mg/kg ≥ 5 000 mg/kg ≥ 50 mg/l
Hexamethylene diisocyanate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5 000 mg/kg ≥ 5 000 mg/kg ≥ 50 mg/l

# 12 SECTION 12: Ecological information:

#### 12.1 Toxicity:

Hexamethylene diisocyanate polymer	LC50 (Fish): EC50 (Daphnia):	> 100 mg/L (Danio rerio) > 100 mg/L (48h)
diisopropyl-1,1'-biphenyl	LC50 (Daphnia): EC50 (Daphnia):	0,6 mg/L (72h) 0,17 mg/L (48h)
	EC50 (Algae):	0,15 mg/L (72h)

## 12.2 Persistence and degradability:

No additional data available

### 12.3 Bioaccumulative potential:

	Additional data:
diisopropyl-1,1'-biphenyl	5,2 - 5,5 (Log Pow)

## 12.4 Mobility in soil:

Water hazard class, WGK (AwSV): 3

Solubility in water: not soluble

#### 12.5 Results of PBT and vPvB assessment:

No additional data available

#### 12.6 Other adverse effects:

No additional data available

# 13 SECTION 13: Disposal considerations:

# 13.1 Waste treatment methods:

Draining into the sewers is not permitted. Removal should be carried out by licensed services. Possible restrictive regulations by local authority should always be adhered to.

# 14 SECTION 14: Transport information:

#### 14.1 UN number:

not applicable

#### 14.2 UN proper shipping name:

ADR, IMDG, ICAO/IATA not applicable

#### 14.3 Transport hazard class(es):

Class(es): not applicable ldentification number of the not applicable

hazard:

## 14.4 Packing group:

not applicable

#### 14.5 Environmental hazards:

not dangerous to the environment

#### 14.6 Special precautions for user:

Hazard characteristics: not applicable
Additional guidance: not applicable

# 15 SECTION 15: Regulatory information:

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

Water hazard class, WGK (AwSV): 3

Volatile organic component (VOC): 0.190 %
Volatile organic component (VOC): 2.147 g/l
Composition by regulation (EC) none

648/2004:

#### 15.2 Chemical Safety Assessment:

No data available

# 16 SECTION 16: Other information:

#### Legend to abbreviations used in the safety data sheet:

ADR: The European Agreement concerning the International Carriage of Dangerous

Goods by Road

BCF: Bioconcentration factor
CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of chemicals

**EINECS:** European INventory of Existing Commercial chemical Substances

Nr.: number

PTB: persistent, toxic, bioaccumulative

**TLV:** Threshold Limit Value

vPvB: very persistent and very bioaccumulative substances

WGK: Water hazard class

WGK 1: slightly hazardous for water

WGK 2: hazardous for water

WGK 3: extremely hazardous for water

#### Legend to the H Phrases used in the safety data sheet:

H304 Asp. Tox. 1: May be fatal if swallowed and enters airways. H315 Skin Irrit. 2: Causes skin irritation. H317 Skin Sens. 1: May cause an allergic skin reaction. H319 Eye Irrit. 2: Causes serious eye irritation. H331 Acute tox. 3: Toxic if inhaled. H332 Acute tox. 4: Harmful if inhaled. H334 Resp. Sens. 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 STOT SE 3: May cause respiratory irritation. H373 STOT RE 2: May cause damage to organs through prolonged or repeated exposure. H413 Aquatic Chronic 4: May cause long lasting harmful effects to aquatic life.

#### **CLP Calculation method:**

Calculation method

## Reason of revision, changes of following items:

not applicable

#### MSDS reference number:

ECM-110764.00

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.