

SAFETY DATA SHEET of: Prokol FireGuard Pro 200 base

Revision date: Friday, June 1, 2018

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

1.1 Product identifier:

Prokol FireGuard Pro 200 base

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

/

Concentration in use: /

1.3 Details of the supplier of the safety data sheet:

PROKOL

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NL5705CA HELMOND (NEDERLAND)

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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:

H226 Flam. Liq. 3 H317 Skin Sens. 1 H319 Eye Irrit. 2 H411 Aquatic Chronic 2

2.2 Label elements:

Pictograms:



Signal word:

Warning

Hazard statements:

H226 Flam. Liq. 3: Flammable liquid and vapour.

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

H319 Eye Irrit. 2: Causes serious eye irritation.

H411 Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P280: Wear protective gloves, protective clothing, eye protection, face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of contents/container in accordance with local/regional/national/international

regulations.

Contains:

 $bis (4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl) methane \\ tetraethyl N,N'-(methylene di cyclohexane-4,1-diyl) bis-DL-aspartate$

2.3 Other hazards:

none

3 SECTION 3: Composition/information on ingredients:

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-	15% - 30%		
methylcyclohexyl)methane	15% - 50%	CAS number:	136210-32-7
		EINECS:	412-060-9
		REACH Registration number:	01-0000015937-58
		CLP Classification:	H317 Skin Sens. 1 H412 Aquatic Chronic 3
Trizinc bis(orthophosphate)	5% - 15%	CAS number:	7779-90-0
		EINECS:	231-944-3
		REACH Registration number:	01-2119485044-40-000
		CLP Classification:	H400 Aquatic Acute 1 H410 Aquatic Chronic 1
n-Butylacetate	5% - 15%	CAS number:	123-86-4
		EINECS:	204-658-1
		REACH Registration number:	01-2119485493-29
		CLP Classification:	EUH066 H226 Flam. Liq. 3 H336 STOT SE 3
tetraethyl N,N'-(methylene di cyclohexane-4,1-	5% - 15%	CAS number:	136210-30-5
diyl)bis-DL-aspartate		EINECS:	429-270-1
		REACH Registration number:	01-0000017556-64
		CLP Classification:	H317 Skin Sens. 1 H412 Aquatic Chronic 3

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified	< 5%	CAS number:	64742-95-6
bolling point napritira - unspecified		EINECS:	265-199-0
		REACH Registration number:	
		CLP Classification:	
Fattyalcohol, ethoxylated	< 5%	CAS number:	68439-46-3
		EINECS:	
		REACH Registration number:	
		CLP Classification:	H318 Eye Dam. 1
diethyl fumarate	< 5%	CAS number:	623-91-6
		EINECS:	210-819-7
		REACH Registration number:	
		CLP Classification:	H302 Acute tox. 4
3-aminopropyltriethoxysilane	< 5%	CAS number:	919-30-2
		EINECS:	213-048-4
		REACH Registration number:	01-2119480479-24
		CLP Classification:	H302 Acute tox. 4 H314 Skin Corr. 1B
Hydrocarbons, C9, aromatics	< 5%	CAS number:	
		EINECS:	918-668-5
		REACH Registration number:	01-2119455851-35
		CLP Classification:	EUH066 H226 Flam. Liq. 3 H304 Asp. Tox. 1 H335 STOT SE 3 H336 STOT SE 3 H411 Aquatic Chronic 2

For the full text of the H & R 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, bad looking

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 avoided:

none

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

Hydrocarbons, C7-C9, n-alkanes, iso-alkanes, cyclic 903 mg/m³, n-Butylacetate 723 mg/m³, 1-methoxypropan-2-ol 375 mg/m³, Cyclohexane 350 mg/m³, n-Hexane 72 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 butyl-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: $100 \, ^{\circ}\text{C} - 210 \, ^{\circ}\text{C}$

pH: /
pH 1% diluted in water: /

Vapour pressure/20°C,:2 250 PaVapour density:not applicableRelative density, 20°C:1.4700 kg/lAppearance/20°C:liquidFlash point:23 °C

Flammability (solid, gas): not applicable

Auto-ignition temperature: 210 $^{\circ}$ C Upper flammability or explosive 15.000 $^{\circ}$

limit, (Vol %):

1.000 %

Lower flammability or explosive

limit, (Vol %):

1.000 /0

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: 210 mPa.s
Kinematic viscosity, 40°C: 143 mm²/s
Evaporation rate (n-BuAc = 1): 17.380

9.2 Other information:

Volatile organic component (VOC): 12.16 %
Volatile organic component (VOC): 168.210 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:

acids, alkalines, 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.H319 Eye Irrit. 2: Causes serious eye irritation.

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

dermal:

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
Trizinc bis(orthophosphate)	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
n-Butylacetate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
tetraethyl N,N'-(methylene di cyclohexane-4,1-diyl)bis-DL-aspartate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l

Fattyalcohol, ethoxylated	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
diethyl fumarate	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	≥ 5,000 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
3-aminopropyltriethoxysilane	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	500 mg/kg ≥ 5,000 mg/kg ≥ 50 mg/l
Hydrocarbons, C9, aromatics	LD50 oral, rat: LD50 dermal, rabbit: LC50, Inhalation, rat, 4h:	3,492 mg/kg 3,160 mg/kg ≥ 50 mg/l

12 SECTION 12: Ecological information:

12.1 Toxicity:

bis(4-(1,2-bis(ethoxycarbonyl)ethylamino)-3-methylcyclohexyl)methane	LC50 (Fish): EC50 (Daphnia): NOEC (Daphnia): NOEC (Algae): EC50 (soil microorganisms):	66 mg/L (Danio rerio)(96h) 88,6 mg/L (48 h) 0,01 mg/L (21 d) 3,110 mg/L (3h) IC50: 113 mg/L
n-Butylacetate	EC50 (Daphnia): 44 EC50 (Algae): 67	3 mg/L (96h) 4 mg/L (48h) 74,7 mg/L (72h) 10 mg/L (72h)
tetraethyl N,N'-(methylene di cyclohexane-4,1-diyl)bis-DL-aspartate	LC50 (Fish): EC50 (Daphnia): NOEC (Daphnia): EC50 (Algae): EC50 (soil microorganisms):	66 mg/L (Danio rerio)(96h) 88,6 mg/L (48 h) 0,01 mg/L (21 d) IC50 113 mg/L 3,110 mg/L (3h)

12.2 Persistence and degradability:

No additional data available

12.3 Bioaccumulative potential:

	Additional data:
n-Butylacetate	Log Pow: 1.81 - 2.3
tetraethyl N,N'-(methylene di cyclohexane-4,1-diyl)bis-DL-aspartate	Log Pow: 5,16 (20°C)

12.4 Mobility in soil:

Water hazard class, WGK (AwSV): 2

Solubility in water: not soluble

12.5 Results of PBT and vPvB assessment:

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:

1263

14.2 UN proper shipping name:

UN 1263 Paint, 3, III, (D/E)

14.3 Transport hazard class(es):

Class(es): 3
Identification number of the 30

hazard:

14.4 Packing group:

Ш

14.5 Environmental hazards:

environmentally hazardous

14.6 Special precautions for user:

Hazard characteristics: Risk of fire. Risk of explosion. Containments may explode when heated.

Additional guidance: Take cover. Keep out of low areas.





15 SECTION 15: Regulatory information:

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

Water hazard class, WGK (AwSV): 2

Volatile organic component (VOC): 12.162 %

Volatile organic component (VOC): 168.210 g/l

Composition by regulation (EC) Phosphates 5% - 15%, Aliphatic hydrocarbons < 5%, Aromatic hydrocarbons < 5%

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:

EUH066: Repeated exposure may cause skin dryness or cracking. H226 Flam. Liq. 3: Flammable liquid and vapour. H302 Acute tox. 4: Harmful if swallowed. H304 Asp. Tox. 1: May be fatal if swallowed and enters airways. H314 Skin Corr. 1B: Causes severe skin burns and eye damage. H317 Skin Sens. 1: May cause an allergic skin reaction. H318 Eye Dam. 1: Causes serious eye damage. H319 Eye Irrit. 2: Causes serious eye irritation. H335 STOT SE 3: May cause respiratory irritation. H336 STOT SE 3: May cause drowsiness or dizziness. H400 Aquatic Acute 1: Very toxic to aquatic life. H410 Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects. H411 Aquatic Chronic 2: Toxic to aquatic life with long lasting effects. H412 Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

Reason of revision, changes of following items:

Sections: 9.1, 9.2

MSDS reference number:

ECM-110404,00

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.