

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

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

1.1 Product identifier

Product code	:	492409
Trade name	:	ROOF EXPERT PU PRIMER
Unique Formula Identifier (UFI)	:	F4S1-J0MK-P005-HX0N

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

Use of the Substance/Mixture	:	SU19 Building and construction work Professional and consumer use of coatings PC9a Coatings and paints, thinners, paint removers
------------------------------	---	--

1.3 Details of the supplier of the safety data sheet

Company	:	CHROMOS - Boje i lakovi d.d. Radnička cesta 173D 10000 Zagreb Croatia
Importer	:	CHROMOS - Boje i lakovi d.d. Radnička cesta 173D 10000 Zagreb Croatia
Telephone Company	:	1 241 0666
Telephone Importer	:	1 241 0666
Telefax Company	:	1 241 5535
Telefax Importer	:	1 241 5535
Responsible/issuing person	:	1 241 0666 productsafety@chromos.eu
Responsible/issuing person-Importer	:	1 241 0666 productsafety@chromos.eu

1.4 Emergency telephone number

Nazvati 112

Broj telefona za medicinske informacije: + 385-01-23-48-342

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
HR / EN			

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification REGULATION (EC) No 1272/2008

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements :

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.

Prevention:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P271 Use only outdoors or in a well-ventilated area.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

ethyl acetate

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol

Diphenylmethanediisocyanate, isomeres and homologues

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate

Additional Labelling

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture

Components

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version
1.0

Revision Date:
11.01.2021

SDS Number:
MAT000492409
HR / EN

Date of last issue: -
Date of first issue: 11.01.2021

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
ethyl acetateethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 30 - < 50
Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediolIsocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol	67815-87-6	Acute Tox. 4; H332 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 30 - < 50
Diphenylmethanediisocyanate, isomeres and homologuesDiphenylmethanediisocyanate, isomeres and homologues	9016-87-9 615-005-00-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373	>= 10 - < 20
4,4'-methylenediphenyl diisocyanate4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 %	>= 1 - < 5

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version 1.0 Revision Date: 11.01.2021 SDS Number: MAT000492409 Date of last issue: -
Date of first issue: 11.01.2021
HR / EN

o-(p-isocyanatobenzyl)phenyl isocyanateo-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1 227-534-9 615-005-00-9 01-2119480143-45	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 ≥ 5 % STOT SE 3; H335 ≥ 5 % Skin Irrit. 2; H315 ≥ 5 % Resp. Sens. 1; H334 ≥ 0,1 %	≥ 1 - < 5
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8 219-784-2 01-2119513212-58	Eye Dam. 1; H318	≥ 1 - < 3

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
-------	--

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically.
-----------	--------------------------

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal considerations see section 13.

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Container may be opened only under exhaust ventilation hood.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m ³	2017/164/EU
	Further information: Indicative			
		TWA	200 ppm 734 mg/m ³	2017/164/EU
	Further information: Indicative			
		GVI	200 ppm 734 mg/m ³	HR OEL
	Further information: 2017/164/EU			
		STEL	400 ppm 1.468 mg/m ³	HR OEL
	Further information: 2017/164/EU			
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	GVI	0,02 mg/m ³ (NCO)	HR OEL
		STEL	0,07 mg/m ³	HR OEL

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version
1.0

Revision Date:
11.01.2021

SDS Number:
MAT000492409
HR / EN

Date of last issue: -
Date of first issue: 11.01.2021

			(NCO)	
4,4'-methylenedi-phenyl diisocyanate	101-68-8	GVI	0,02 mg/m3 (NCO)	HR OEL
		STEL	0,07 mg/m3 (NCO)	HR OEL
o-(p-isocyanato-benzyl)phenyl isocyanate	5873-54-1	GVI	0,02 mg/m3 (NCO)	HR OEL
		STEL	0,07 mg/m3 (NCO)	HR OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Diphenylmethanediisocyanate, isomers and homologues	Workers	Inhalation	Acute systemic effects	0,1 mg/m3
	Workers	Inhalation	Long-term systemic effects	0,05 mg/m3
	Consumers	Inhalation	Acute systemic effects	0,05 mg/m3
	Consumers	Inhalation	Long-term local effects	0,025 mg/m3
	Consumers	Inhalation	Long-term systemic effects	0,025 mg/m3
	Consumers	Inhalation	Acute local effects	0,05 mg/m3
	Workers	Dermal	Acute systemic effects	28,7 mg/cm2
	Consumers	Dermal	Acute local effects	17,2 mg/cm2
	Workers	Dermal	Acute systemic effects	50 mg/kg
	Consumers	Dermal	Acute systemic effects	25 mg/kg
4,4'-methylenediphenyl diisocyanate	Consumers	Oral	Acute systemic effects	20 mg/kg
	Workers	Inhalation	Long-term local effects	0,05 mg/m3
	Workers	Inhalation	Acute local effects	0,1 mg/m3
	Consumers	Inhalation	Long-term local effects	0,025 mg/m3
ethyl acetate	Consumers	Inhalation	Acute local effects	0,05 mg/m3
	Workers	Inhalation	Acute systemic effects	1468 mg/m3
	Workers	Inhalation	Long-term local effects	1468 mg/m3
	Workers	Inhalation	Long-term systemic effects	734 mg/m3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version
1.0

Revision Date:
11.01.2021

SDS Number:
MAT000492409
HR / EN

Date of last issue: -
Date of first issue: 11.01.2021

	Workers	Inhalation	Long-term local effects	734 mg/m ³
	Consumers	Inhalation	Acute systemic effects	734 mg/m ³
	Consumers	Inhalation	Acute local effects	734 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	367 mg/m ³
	Consumers	Inhalation	Long-term local effects	367 mg/m ³
	Workers	Dermal	Long-term systemic effects	63 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	37 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	4,5 mg/kg bw/day
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Workers	Inhalation	Long-term systemic effects	147 mg/m ³
	Workers	Dermal	Long-term systemic effects	21 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	12,5 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	12,5 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Diphenylmethanediisocyanate, isomeres and homologues	Soil	1 mg/kg
	Marine water	0,1 mg/l
	Fresh water	1 mg/l
	Sewage treatment plant	1 mg/l
	Intermittent use/release	10 mg/l
4,4'-methylenediphenyl diisocyanate	Soil	1 mg/kg dry weight (d.w.)
	Marine water	0,1 mg/l
	Fresh water	1 mg/l
	Sewage treatment plant	1 mg/l
	Intermittent use/release	10 mg/l
ethyl acetate	Soil	0,24 mg/kg dry weight (d.w.)
	Marine water	0,026 mg/l
	Fresh water	0,26 mg/l
	Marine sediment	0,125 mg/kg dry weight (d.w.)
	Fresh water sediment	1,25 mg/kg dry weight (d.w.)
	Sewage treatment plant	650 mg/l
	Intermittent use/release	1,65 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version 1.0 Revision Date: 11.01.2021 SDS Number: MAT000492409 Date of last issue: -
Date of first issue: 11.01.2021
HR / EN

[3-(2,3-epoxypropoxy)propyl]tri-methoxysilane	Soil	0,14 mg/kg dry weight (d.w.)
	Marine water	0,1 mg/l
	Fresh water	1 mg/l
	Marine sediment	0,36 mg/kg dry weight (d.w.)
	Fresh water sediment	3,6 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Intermittent use/release	1 mg/l
o-(p-isocyanatobenzyl)phenyl isocyanate	Soil	1 mg/kg dry weight (d.w.)
	Marine water	0,1 mg/l
	Fresh water	1 mg/l
	Sewage treatment plant	1 mg/l
	Intermittent use/release	10 mg/l

8.2 Exposure controls

Personal protective equipment

- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : in accordance with the product description
- Odour : characteristic
- Odour Threshold : No data available
- Melting point/freezing point : -83,6 °C
(calculation method (principal components, lowest value))
- Boiling point/boiling range : 77 °C (calculation method (principal components, lowest value))
- Upper explosion limit / Upper flammability limit : 11 %(V) (calculation method (principal components, highest value))

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

Lower explosion limit / Lower flammability limit	:	2,2 %(V) (calculation method (principal components, highest value))
Flash point	:	-1 °C (calculation method (principal components, lowest value))
Ignition temperature	:	427 °C (calculation method (principal components, highest value))
Decomposition temperature	:	No decomposition if stored and applied as directed.
pH	:	No data available
Viscosity	:	
Flow time	:	11 - 15 s at 23 °C Method: DIN 53211 (CF4)
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 0,6 (calculation method (principal components, highest value))
Vapour pressure	:	10,3 kPa (calculation method (principal components, highest value))
Relative density	:	No data available
Density	:	1,0 - 1,03 g/cm ³
Relative vapour density	:	3,04 (calculation method (principal components, lowest value)) (Air = 1.0)

9.2 Other information

VOC	:	(Directive 2004/42/EC) 700 g/l
-----	---	-----------------------------------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
HR / EN			

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): ≥ 5.620 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1600 ppm
Exposure time: 8 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): ≥ 20.000 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
HR / EN			

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol:

Acute inhalation toxicity : Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Diphenylmethanediisocyanate, isomers and homologues:

Acute inhalation toxicity : Test atmosphere: dust/mist
Assessment: The component/mixture is moderately toxic after short term inhalation.

Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Test atmosphere: gas
Assessment: The component/mixture is moderately toxic after short term inhalation.

4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Test atmosphere: dust/mist
Assessment: The component/mixture is moderately toxic after short term inhalation.

Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol:

Result : irritating

Diphenylmethanediisocyanate, isomers and homologues:

Result : irritating

4,4'-methylenediphenyl diisocyanate:

Result : irritating

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

o-(p-isocyanatobenzyl)phenyl isocyanate:

Result : irritating

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Components:

ethyl acetate:

Result : Eye irritation

Diphenylmethanediisocyanate, isomers and homologues:

Result : Eye irritation

4,4'-methylenediphenyl diisocyanate:

Result : Eye irritation

o-(p-isocyanatobenzyl)phenyl isocyanate:

Result : Eye irritation

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product:

Remarks : Causes sensitisation.

Components:

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol:

Result : Probability of respiratory sensitisation in humans based on animal testing

Result : Probability or evidence of skin sensitisation in humans

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
HR / EN			

Diphenylmethanediisocyanate, isomeres and homologues:

Result : Probability of respiratory sensitisation in humans based on animal testing

Result : Probability or evidence of skin sensitisation in humans

4,4'-methylenediphenyl diisocyanate:

Result : Probability of respiratory sensitisation in humans based on animal testing

Result : Probability or evidence of skin sensitisation in humans

o-(p-isocyanatobenzyl)phenyl isocyanate:

Result : Probability of respiratory sensitisation in humans based on animal testing

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Components:

Diphenylmethanediisocyanate, isomeres and homologues:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

4,4'-methylenediphenyl diisocyanate:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

o-(p-isocyanatobenzyl)phenyl isocyanate:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Components:

ethyl acetate:

Assessment : May cause drowsiness or dizziness.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol:

Assessment : May cause respiratory irritation.

Diphenylmethanediisocyanate, isomeres and homologues:

Assessment : May cause respiratory irritation.

4,4'-methylenediphenyl diisocyanate:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Diphenylmethanediisocyanate, isomeres and homologues:

Assessment : May cause damage to organs through prolonged or repeated exposure.

4,4'-methylenediphenyl diisocyanate:

Assessment : May cause damage to organs through prolonged or repeated exposure.

o-(p-isocyanatobenzyl)phenyl isocyanate:

Assessment : May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

ethyl acetate:

Partition coefficient: n-octanol/water : log Pow: 0,6

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Waste Code	: 08 01 11, waste paint and varnish containing organic solvents or other hazardous substances

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version
1.0

Revision Date:
11.01.2021

SDS Number:
MAT000492409
HR / EN

Date of last issue: -
Date of first issue: 11.01.2021

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 1263
ADR	:	UN 1263
RID	:	UN 1263
IMDG	:	UN 1263
IATA	:	UN 1263

14.2 UN proper shipping name

ADN	:	PAINT
ADR	:	PAINT
RID	:	PAINT
IMDG	:	PAINT
IATA	:	Paint

14.3 Transport hazard class(es)

ADN	:	3
ADR	:	3
RID	:	3
IMDG	:	3
IATA	:	3

14.4 Packing group

ADN	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
ADR	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3
Tunnel restriction code	: (D/E)
RID	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

IMDG

Packing group : III
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list 3 4,4'-methylenediphenyl diisocyanate (Number on list 56) o-(p-isocyanatobenzyl)phenyl isocyanate (Number on list 56)
--	---

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROOF EXPERT PU PRIMER

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

P5c

Volatile organic compounds : Directive 2004/42/EC
Volatile organic compounds (VOC) content: 700 g/l

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer.
H373	: May cause damage to organs through prolonged or repeated exposure.
EUH066	: Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
HR OEL	: Croatia. Regulations on limit values for exposure to hazardous substances at work and on the biological limit values.
2017/164/EU / STEL	: Short term exposure limit
2017/164/EU / TWA	: Limit Value - eight hours
HR OEL / STEL	: Short term exposure limit
HR OEL / GVI	: time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ROOF EXPERT PU PRIMER



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11.01.2021	MAT000492409	Date of first issue: 11.01.2021
		HR / EN	

Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373

Classification procedure:

Based on product data or assessment

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

Calculation method

The information provided in this Safety Data Sheet 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 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 materials or in any process, unless specified in the text.