TU1140/00

SAFETY DATA SHEET

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

1.1 Product identifier

Product name : PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET

FLOORING - 40 GLOSS

Product code : TU1140/00

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

Material uses : Paint or paint related material.

: Industrial use only.

1.3 Details of the supplier of the safety data

sheet

SHERWIN-WILLIAMS Italy S.r.I. Via del Fiffo, 12 - 40065 Pianoro (BO)

Italia - C.P. 18

Cod. Fisc. e Reg. Impr. Bo 08866930152

e-mail address of person

: regulatory.SWI@sherwin.com

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : 0844 892 0111

Supplier

Telephone number : +39 051 770511

Hours of operation : Emergency contact available 24 hours a day

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317

STOT SE 3, H335 and H336 (Respiratory tract irritation and Narcotic effects)

STOT RE 2, H373 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R10

Xn; R20/21, R48/20

Xi; R36/37 R42/43, R66 R52/53

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 1/19

TU1140/00

SECTION 2: Hazards identification

Physical/chemical

: Flammable.

hazards

Human health hazards : Harmful by inhalation and in contact with skin. Harmful: danger of serious damage

to health by prolonged exposure through inhalation. Irritating to eyes and respiratory system. May cause sensitization by inhalation and skin contact.

Repeated exposure may cause skin dryness or cracking.

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms







Signal word : Danger

Hazard statements: Highly flammable liquid and vapor.

Harmful if inhaled.

Causes serious eye irritation.

Causes skin irritation.

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

May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness and dizziness.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

Avoid release to the environment. Do not breathe vapor.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF

ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

Storage: Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazardous ingredients : n-Butyl Acetate

Urethane Polymer

Xylene

Toluene Diisocyanate Amine Polymer Solvent naphtha (petroleum), light arom.

p-Toluenesulfonyl Isocyanate

Toluene Diisocyanate

Toluene-2,4-diisocyanate (max.) Toluene-2,6-diisocyanate (max.)

Supplemental label

elements

articles

: Contains isocyanates. May produce an allergic reaction. Repeated exposure may

2/19

cause skin dryness or cracking. FOR INDUSTRIAL USE ONLY

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

: Not applicable.

Special packaging requirements

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS TU1140/00

SECTION 2: Hazards identification

Not applicable.

Biocidal products regulation

2.3 Other hazards

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixture

			<u>Cla</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
n-Butyl Acetate	REACH #: 01-2119485493-29	>=25 - <35	R10	Flam. Liq. 3, H226	[1] [2]
	EC: 204-658-1		R66, R67	STOT SE 3, H336 (Narcotic effects)	
Urethane Polymer	CAS: 123-86-4 Index: 607-025-00-1 EC: 500-120-8	>=20 - <25	Xi; R36	Eye Irrit. 2, H319	[1]
Orethane i Olymei	CAS: 53317-61-6	-20 - 125	R43	Skin Sens. 1, H317	1.1
Xylene	REACH #: 01-2119488216-32	>=12.5 - <20	R10	Flam. Liq. 3, H226	[1] [2]
	EC: 215-535-7		Xn; R20/21, R48/20, R65	Acute Tox. 4, H312	
	CAS: 1330-20-7 Index: 601-022-00-9		Xi; R36/37/38	Acute Tox. 4, H332 Skin Irrit. 2, H315	
	111dox. 001 022 00 0			Eye Irrit. 2, H319	
				STOT SE 3, H335	
				(Respiratory tract irritation)	
				STOT RE 2, H373	
1-Methoxy-2-Propanol	REACH #:	>=10 - <15	R10	Asp. Tox. 1, H304 Flam. Liq. 3, H226	[2]
Acetate	01-2119475794-29 EC: 203-603-9 CAS: 108-65-6	7-10-413	IX 10	1 Iam. Elq. 3, 11220	[2]
Toluene Diisocyanate	Index: 607-195-00-7 CAS: 103051-64-5	>=10 - <20	Xi; R36	Eye Irrit. 2, H319	[1]
Amine Polymer	07.0. 100001 010	10 20	R43	Skin Sens. 1, H317	
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35	>=5 - <10	R10	Flam. Liq. 3, H226	[1]
	EC: 265-199-0		Xn; R65	STOT SE 3, H335 and H336 (Respiratory tract irritation and Narcotic effects)	
	Index: 649-356-00-4		Xi; R37 R66, R67 N; R51/53	Asp. Tox. 1, H304 Aquatic Chronic 2, H411	
Ethylbenzene	REACH #: 01-2119489370-35	>=1 - <3	F; R11	Flam. Liq. 2, H225	[1] [2]
	EC: 202-849-4 CAS: 100-41-4		Xn; R20	Acute Tox. 4, H332	
Toluene Diisocyanate	Index: 601-023-00-4 REACH #: 01-2119454791-34	>=0.25 - <1	Carc. Cat. 3; R40	Acute Tox. 2, H330	[1] [2]
	EC: 247-722-4 CAS: 26471-62-5		T+; R26 Xi; R36/37/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	
	Index: 615-006-00-4		R42/43 R52/53	Resp. Sens. 1, H334 Skin Sens. 1, H317	

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 3/19

TU1140/00

SECTION 3: Composition/information on ingredients

				Carc. 2, H351 STOT SE 3, H335 (Respiratory tract irritation) Aguatic Chronic 3, H412	
Toluene-2,	REACH #:	>=0.1 - <0.	Carc. Cat. 3; R40	Acute Tox. 1, H330	[1] [2]
4-diisocyanate (max.)	01-2119486974-18 EC: 209-544-5 CAS: 584-84-9 Index: 615-006-00-4	25	T+; R26 Xi; R36/37/38 R42/43 R52/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 (Respiratory tract irritation) Aguatic Chronic 3, H412	
Butylated Hydroxy	REACH #:	>=0.1 - <1	Xn; R22	Aquatic Acute 1, H400	[1] [2]
Toluene	01-2119555270-46 EC: 204-881-4 CAS: 128-37-0		Xi; R36/38	Aquatic Chronic 1, H410	
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Inhalation

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- I31 Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

: Check for and remove any contact lenses. Immediately flush eyes with running Eve contact

water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

If swallowed, seek medical advice immediately and show this container or label. Ingestion

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it

> is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 4/19

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS

TU1140/00

SECTION 4: First aid measures

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol, Toluene Diisocyanate Amine Polymer, 4-isocyanatosulphonyltoluene, m-tolylidene diisocyanate, 4-methyl-m-phenylene diisocyanate. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, carbon dioxide, powders

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 5/19

TU1140/00

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts). ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0.880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the

Care should be taken when re-opening partly-used containers. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurization. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection

Date of issue/Date of revision : 19, Apr, 2015. 6/19 Date of previous issue : No previous validation. Version : 1

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS

TU1140/00

SECTION 7: Handling and storage

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilled product.

Seveso II Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
Toluene diisocyanate	10	100
Toluene diisocyanate	10	100
Toluene diisocyanate	10	100

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b C6: Flammable (R10)	5000 5000	50000 50000

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name Exposure limit values

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 7/19

TU1140/00

SECTION 8: Exposure controls/personal protection

n-Butyl Acetate EH40/2005 WELs (United Kingdom (UK), 12/2011).

STEL: 966 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m³ 8 hours. TWA: 150 ppm 8 hours.

Xylene EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed

through skin.

STEL: 441 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

1-Methoxy-2-Propanol Acetate | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed

through skin.

STEL: 548 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.

Ethylbenzene EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed

through skin.

STEL: 552 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 441 mg/m³ 8 hours.

Toluene Diisocyanate EH40/2005 WELs (United Kingdom (UK), 12/2011). Skin

sensitizer.

STEL: 0.07 mg/m³, (as NCO) 15 minutes. TWA: 0.02 mg/m³, (as NCO) 8 hours.

Toluene-2,4-diisocyanate (max.) EH40/2005 WELs (United Kingdom (UK), 12/2011). Skin

sensitizer.

STEL: 0.07 mg/m³, (as NCO) 15 minutes. TWA: 0.02 mg/m³, (as NCO) 8 hours.

Butylated Hydroxy Toluene EH40/2005 WELs (United Kingdom (UK), 12/2011).

TWA: 10 mg/m³ 8 hours.

Recommended monitoring procedures

- : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 8/19

TU1140/00

SECTION 8: Exposure controls/personal protection

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

Appropriate engineering controls

- : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)
- : Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection

: Use safety eyewear designed to protect against splash of liquids.

: Wear suitable gloves tested to EN374.

Hand protection Gloves

: Short Term Exposure less than 30 minutes Continuous use LDPE gloves, 30 microns or Butyl gloves 0.7mm

Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE Laminate gloves > 8 hours (breakthrough time).

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection

- : Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 9/19

TU1140/00

SECTION 8: Exposure controls/personal protection

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure

: Do not allow to enter drains or watercourses.

controls

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

ColorNot available.OdorCharacteristic.Odor thresholdNot available.

pH : Testing not technically possible.Melting point/freezing point : Not Available (Not Tested).

Initial boiling point and

boiling range

: 123°C

Flash point : Closed cup: 22°C [Pensky-Martens Closed Cup]

: Lower: 0.7%

Evaporation rate : 1 (butyl acetate = 1)

Flammability (solid, gas): Not Available (Not Tested).Burning time: Not Available (Not Tested).Burning rate: Not Available (Not Tested).

Upper/lower flammability or

explosive limits Upper: 13.1%

Vapor pressure: 0.18 kPa [at 20°C]Vapor density: 3.66 [Air = 1]

Relative density : 0.99

Solubility(ies) : Not Available (Not Tested).

Solubility in water : Not Available (Not Tested).

Partition coefficient: n-octanol/ : Not Available (Not Tested).

water

Auto-ignition temperature: Not Available (Not Tested).Decomposition temperature: Not Available (Not Tested).

Viscosity : Kinematic (room temperature): <0.07 cm²/s

Kinematic (40°C): >0.205 cm²/s

Explosive properties

Oxidizing properties : Under normal conditions of storage and use, hazardous reactions will not occur.

9.2 Other information

Heat of combustion : 0.0000194 kJ/g

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 10/19

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS

TU1140/00

SECTION 10: Stability and reactivity

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: The product reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure buildup could result in distortion, expansion and, in extreme cases, burnting of the container.

extreme cases, bursting of the container.

10.4 Conditions to avoid

: In a fire, hazardous decomposition products may be produced.

10.5 Incompatible materials

: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol, Toluene Diisocyanate Amine Polymer, 4-isocyanatosulphonyltoluene, m-tolylidene diisocyanate, 4-methyl-m-phenylene diisocyanate. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl Acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
•	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
•	LD50 Oral	Rat	4300 mg/kg	-
1-Methoxy-2-Propanol Acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	8400 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	LD50 Oral	Rat	3500 mg/kg	-

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 11/19

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS TU1140/00

SECTION 11: Toxicological information

Toluene Diisocyanate	LD50 Oral	Rat	4130 mg/kg	-
Toluene-2,4-diisocyanate	LC50 Inhalation Gas.	Rat	14 ppm	4 hours
(max.)				
	LD50 Oral	Rat	5800 mg/kg	-
Butylated Hydroxy Toluene	LD50 Oral	Rat	890 mg/kg	-

Acute toxicity estimates

Route ATE value	
Inhalation (gases)	7121.9 mg/kg 5423.8 ppm 127.3 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100	-
-				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
Xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat		milligrams 8 hours 60	_
	Skiii - Miid ii italit	Rai	-	microliters	-
	Skin - Moderate irritant	Rabbit	_	24 hours 500	_
	Okin Woderate initiant	rabbit		milligrams	
	Skin - Moderate irritant	Rabbit	_	100 Percent	-
Solvent naphtha (petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
light arom.				microliters	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
Talvana Diigaayanata	Claim Covers immittant	Dobbit		milligrams	
Toluene Diisocyanate	Skin - Severe irritant	Rabbit	-	500 milligrams	-
Toluene-2,4-diisocyanate	Eyes - Severe irritant	Rabbit	_	100	_
(max.)	Lyes - Gevere imane	Rabbit		milligrams	
(11271)	Skin - Moderate irritant	Rabbit	_	24 hours 500	-
				milligrams	
	Skin - Severe irritant	Rabbit	-	500	-
				milligrams	
Butylated Hydroxy Toluene	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Chia Milalimitant	11		milligrams	
	Skin - Mild irritant	Human	-	48 hours 500	-
	Skin - Moderate irritant	Rabbit	_	milligrams 48 hours 500	
	OKIII - MOGELALE IITILATIL	Ιλαυυίι	1	milligrams	_
				riningrairis	

Conclusion/Summary

: Not available.

Sensitization

No data available

Conclusion/Summary

: Not available.

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Date of issue/Date of revision :19, Apr, 2015. Date of previous issue :No previous validation. Version :1 12/19

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS TU1140/00

SECTION 11: Toxicological information

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl Acetate	Category 3	Not applicable.	Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory tract irritation
Solvent naphtha (petroleum), light arom.	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Toluene Diisocyanate	Category 3	Not applicable.	Respiratory tract irritation
Toluene-2,4-diisocyanate (max.)	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	Not determined	Not determined

Aspiration hazard

Product/ingredient name	Result	
Xylene	ASPIRATION HAZARD - Category 1	
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1	

Other information: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
n-Butyl Acetate	Acute LC50 32000 μg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 18000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6530 μg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2930 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Toluene-2,4-diisocyanate (max.)	Acute LC50 164500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Butylated Hydroxy Toluene	Acute EC50 1440 μg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours

Date of issue/Date of revision: 19, Apr, 2015.Date of previous issue: No previous validation.Version: 1

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS

TU1140/00

SECTION 12: Ecological information

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	-	-	Readily
Xylene	-	-	Readily
1-Methoxy-2-Propanol	-	-	Readily
Acetate			-
Ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	-	8.1 to 25.9	low
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom.			
Butylated Hydroxy Toluene	-	330 to 1800	high

12.4 Mobility in soil

Soil/water partition

coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.vPvB : Not applicable.

12.6 Other adverse effects

: No known significant effects or critical hazards.

: Avoid dispersal of spilled material and runoff and contact with soil, waterways,

drains and sewers.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Yes.

European waste catalogue (EWC)

: waste isocyanates 08 05 01*

Disposal considerations

: Do not allow to enter drains or watercourses. Residues in empty containers should

be neutralized with a decontaminant (see section 6).

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 14/19

TU1140/00

SECTION 13: Disposal considerations

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

European waste catalogue (EWC) Special precautions packaging containing residues of or contaminated by dangerous substances 15 01

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.
Additional information	Special provisions 640 (E) Tunnel code D/E	Emergency schedules (EmS) F-E, S-E	Special provisions Not Applicable

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 15/19

PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS

TU1140/00

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

European Directive 2004/42/EC

: Exclusively for uses non-regulated by directive 2004/42/EC

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Toluene Diisocyanate Toluene-2,4-diisocyanate	Carc. 2, H351 Carc. 2, H351	-	-	-
(max.)	,			

Seveso II Directive

This product is controlled under the Seveso II Directive.

Named substances

Name

Toluene-2,6-diisocyanate (max.)

Toluene Diisocyanate

Toluene-2,4-diisocyanate (max.)

Danger criteria

Category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

C6: Flammable (R10)

National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

International regulations

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

Date of issue/Date of revision Date of previous issue : 19, Apr, 2015. : No previous validation. Version : 1 16/19

TU1140/00

SECTION 16: Other information

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Key literature references and sources for data

: Regulation (EC) No. 1272/2008 [CLP]

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

DPD = Dangerous Preparations Directive [1999/45/EC]
DSD = Dangerous Substances Directive [67/548/EEC]

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 453/2010

Directive 96/82/EC, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2000/39/EC, and relative amendments & additions

CEPE Guidelines

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Resp. Sens. 1, H334	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335 and H336 (Respiratory tract irritation	Calculation method
and Narcotic effects)	
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated	Н
statements	

		Calculation method
1	H225 H226	Highly flammable liquid and vapor. Flammable liquid and vapor.
	H304	May be fatal if swallowed and enters airways.
	H312 (dermal)	Harmful in contact with skin.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H330	Fatal if inhaled.
	H332	Harmful if inhaled.
	(inhalation)	
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation. (Respiratory tract irritation)
	(Respiratory tract irritation)	
	H335 and H336	May cause respiratory irritation. May cause drowsiness and
	(Respiratory tract irritation and Narcotic effects)	dizziness. (Respiratory tract irritation and Narcotic effects)
	H336 (Narcotic effects)	May cause drowsiness and dizziness. (Narcotic effects)
	H351	Suspected of causing cancer.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 17/19

TU1140/00

SECTION 16: Other information

Full text of	classifications
ICLP/GHS1	

Acute Tox. 1, H330
 Acute Tox. 2, H330
 Acute Tox. 2, H330
 Acute Tox. 4, H312
 Acute Tox. 4, H312
 Acute Tox. 4, H332
 Acute ToxICITY (inhalation) - Category 4
 Acute Tox. 4, H332
 Acute Tox. 4, H312
 Acute Tox. 4, H312
 Acute ToxICITY (inhalation) - Category 4
 Acute Tox. 4, H312
 Acute ToxICITY (inhalation) - Category 4
 Acute Tox. 4, H312
 Acute Tox. 4, H312
 Acute ToxICITY (inhalation) - Category 4
 Acute Tox. 4, H312
 Acute ToxICITY (inhalation) - Category 4
 Acute Tox. 4, H312
 Acute ToxICITY (inhalation) - Category 4
 Acute ToxICITY (inhalation) - Category 4
 Acute ToxICITY (inhalation) - Category 4
 Acute Tox. 4, H332
 Acute ToxICITY (inhalation) - Category 4
 A

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1 Carc. 2, H351 CARCINOGENICITY - Category 2

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Resp. Sens. 1, H334 RESPIRATORY SENSITIZATION - Category 1 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE (Respiratory tract EXPOSURE) (Respiratory tract irritation) - Category 3

irritation) STOT SE 3, H335 and H336 (Respiratory tract

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic

irritation and Narcotic effects) - Category 3

effects)

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE (Narcotic effects) EXPOSURE) (Narcotic effects) - Category 3

Full text of abbreviated R phrases

: R11- Highly flammable.

R10- Flammable.

R40- Limited evidence of a carcinogenic effect.

R26- Very toxic by inhalation. R20- Harmful by inhalation. R22- Harmful if swallowed.

R20/21- Harmful by inhalation and in contact with skin.

R48/20- Harmful: danger of serious damage to health by prolonged exposure

through inhalation.

R65- Harmful: may cause lung damage if swallowed.

R36- Irritating to eyes.

R37- Irritating to respiratory system.

R36/37- Irritating to eyes and respiratory system.

R36/38- Irritating to eyes and skin.

R36/37/38- Irritating to eyes, respiratory system and skin.

R43- May cause sensitization by skin contact.

R42/43- May cause sensitization by inhalation and skin contact. R66- Repeated exposure may cause skin dryness or cracking.

R67- Vapors may cause drowsiness and dizziness.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

18/19

Full text of classifications [DSD/DPD]

: F - Highly flammable

Carc. Cat. 3 - Carcinogen category 3

T+ - Very toxic Xn - Harmful Xi - Irritant

N - Dangerous for the environment

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PU SELF-SEALER, ONE-COMPONENT, TRANSPARENT FOR PARQUET FLOORING - 40 GLOSS

TU1140/00

SECTION 16: Other information

Date of previous issue

: No previous validation.

: If there is no previous validation date please contact your supplier for more

information.

Version : 1

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Date of revision : 19, Apr, 2015. Date of previous issue : No previous validation. Version : 1 19/19