# SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: TRANSGARD TG169 Acrylic Urethane Finish - Base
Product code	: TG169B
	• • • • • • • • • • • • • • • • • • •
	s 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 sheet	of the safety data
Sherwin-Williams UK Limite Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	d - Protective & Marine
The Sherwin-Williams Com Inver France SAS 2 Rue Jean Revaus - BP 80 Thouars CEDEX France	
e-mail address of person responsible for this SDS	: hse.pm.emea@sherwin.com
1.4 Emergency telephone n	umber
National advisory body/Po	<u>pison Center</u>
Telephone number	: 22 59 13 00
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards id	entification
2.1 Classification of the sul	ostance or mixture
Product definition	: Mixture
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	o Regulation (EC) No. 1272/2008 [CLP/GHS]
The product is classified as	hazardous according to Regulation (EC) 1272/2008 as amended.

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### **SECTION 2: Hazards identification**

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

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#### 2.2 Label elements Hazard pictograms

Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>
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. Avoid release to the environment. Do not breathe vapor.
Response	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Xylene, mixed isomers Hydrocarbons, C9, aromatics
Supplemental label elements	<ul> <li>Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. FOR INDUSTRIAL USE ONLY</li> </ul>

Not applicable.

<u>2.3 Other hazards</u>	
	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other hazards which do not result in classification	: None known.

#### **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Date of issue/Date of revision	: 15, Apr, 2024	Date of p	revious issue : 21, Jan, 2024	Version : 21	2/3

Conforms to Regulation (I TRANSGARD TG169 Acrylic Uret TG169B	, ,	ACH), Anne	ex II		
SECTION 3: Composit	tion/information or	n ingredie	nts		
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: -	≤10	Flam. Liq. 3, H304 Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd See Section 16 for	-	[1]
			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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

# **SECTION 4: First aid measures**

4.1 Description of first aid measures			
General	<ul> <li>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.</li> </ul>		
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>		
Inhalation	<ul> <li>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.</li> </ul>		
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>		
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>		

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#### **SECTION 4: First aid measures**

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.

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

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 nonallergic 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.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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, CO <sub>2</sub> , powders, water spray or mist.	
Unsuitable extinguishing media	: Do not use water jet.	
5.2 Special hazards arising f	rom the substance or mixture	
Hazards from the substance or mixture	<ul> <li>Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.</li> </ul>	
Hazardous combustion 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.	

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	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 specialized 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 13).	
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	<ul> <li>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.</li> <li>Operators should wear antistatic footwear and clothing and floors should be of the conducting type.</li> <li>Care should be taken when re-opening partly-used containers. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO<sub>2</sub> will be formed, which, in closed containers, could result in pressurization. Keep away from heat, sparks and flame. No sparking tools should be used.</li> <li>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.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Never use pressure to empty. Container is not a pressure vessel.</li> <li>Always keep in containers made from the same material as the original one.</li> </ul>
	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.

### **SECTION 7: Handling and storage**

	Information on fire and explosion protection
	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	: Store in accordance with local regulations. Notes on joint storage
incompatibilities	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.
	Store in closed original container at temperatures between 5°C and 25°C.
7.3 Specific end use(s)	

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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		
Xylene, mixed isomers	FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 108 mg/m <sup>3</sup> 8 hours.		
Ethylbenzene	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours. TWA: 20 mg/m <sup>3</sup> 8 hours.		
2-methoxy-1-methylethyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 50 ppm 8 hours. TWA: 270 mg/m <sup>3</sup> 8 hours.		

#### **Biological exposure indices**

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#### **SECTION 8: Exposure controls/personal protection**

No exposure indices known.

Recommended monitoring procedures	<ul> <li>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.</li> </ul>
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: Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m <sup>3</sup>	Workers	Systemic
-	DNEL	Long term Dermal	125 mg/kg	General	Systemic
				population	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	289 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	174 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
				population	
2-methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m³	General	Local
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	36 mg/kg	General	Systemic
			bw/day	population	
			200	[Consumers]	O un tra un la
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
				population	
	DNEL	Long term	33 mg/m³	[Consumers] General	Systemic
	DINEL	Inhalation	55 mg/m²	population	Systemic
				[Consumers]	
	DNEL	Long term	550 mg/m³	Workers	Local
	DINEL	Inhalation	550 mg/m	VVUINCIS	
	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
			bw/day	VV OINEIS	Cysternic
	DNEL	Long term	275 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	,,, _,, _		
2-Ethyl-2-(hydroxymethyl)	DNEL	Long term Dermal	0.94 mg/kg	Workers	Systemic
-1,3-propanediol			0.0 1 119/19		
ite bioballogio	DNEL	Long term	3.3 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	,,g/		- ,

#### DNELs/DMELs

#### **PNECs**

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### **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Compartment Detail	Value	Method Detail
2-methoxy-1-methylethyl acetate	Fresh water Marine water Fresh water sediment Marine water sediment Soil Sewage Treatment Plant	0.635 mg/kg 0.0635 mg/l 3.29 mg/kg 0.329 mg/kg 0.29 mg/kg 100 mg/l	- - - -

#### 8.2 Exposure controls

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.)
	<ul> <li>Users are advised to consider national Occupational Exposure Limits or other equivalent values.</li> </ul>
Individual protection meas	ures
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	<ul> <li>Gloves for short term exposure/splash protection (less than 10 min): Nitrile &gt;0.35 mm</li> <li>Gloves for splash protection need to be changed immediately when in contact with chemicals.</li> <li>For long term exposure or spills (breakthrough time &gt;480 min): Use PE laminate gloves as under gloves.</li> <li>Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.</li> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.</li> <li>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,</li> </ul>
	<ul> <li>storage, maintenance and replacement must be followed.</li> <li>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> </ul>

#### SECTION 8: Exposure controls/personal protection

	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	<ul> <li>Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.</li> </ul>
	: 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	<ul> <li>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.</li> </ul>
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 controls	: Do not allow to enter drains or watercourses.

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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

Physical state: Liquid.Color: White.Odor: Characteristic.Odor threshold: Not available.pH: Not relevant/applicable due to nature of the product. insoluble in water.Melting point/freezing point: Not relevant/applicable due to nature of the product. insoluble in water.Initial boiling point and boiling range: Closed cup: 28°C [Pensky-Martens Closed Cup]	<u>Appearance</u>	
Odor: Characteristic.Odor threshold: Not available.pH: Not relevant/applicable due to nature of the product. insoluble in water.Melting point/freezing point: Not relevant/applicable due to nature of the product. isoluble in water.Initial boiling point and boiling range: Not relevant/applicable due to nature of the product.Flash point: Closed cup: 28°C [Pensky-Martens Closed Cup]	Physical state	: Liquid.
Odor threshold: Not available.pH: Not relevant/applicable due to nature of the product. insoluble in water.Melting point/freezing point: Not relevant/applicable due to nature of the product.Initial boiling point and boiling range: 136°CFlash point: Closed cup: 28°C [Pensky-Martens Closed Cup]	Color	: White.
pH: Not relevant/applicable due to nature of the product. insoluble in water.Melting point/freezing point: Not relevant/applicable due to nature of the product.Initial boiling point and boiling range: 136°CFlash point: Closed cup: 28°C [Pensky-Martens Closed Cup]	Odor	: Characteristic.
Melting point/freezing point: Not relevant/applicable due to nature of the product.Initial boiling point and boiling range: 136°CFlash point: Closed cup: 28°C [Pensky-Martens Closed Cup]	Odor threshold	: Not available.
Initial boiling point and boiling range: 136°CFlash point: Closed cup: 28°C [Pensky-Martens Closed Cup]	рН	
boiling rangeFlash point: Closed cup: 28°C [Pensky-Martens Closed Cup]	Melting point/freezing point	: Not relevant/applicable due to nature of the product.
	• •	: 136°C
	Flash point	: Closed cup: 28°C [Pensky-Martens Closed Cup]
<i>Evaporation rate</i> : 0.8 (butyl acetate = 1)	Evaporation rate	: 0.8 (butyl acetate = 1)
Flammability : Flammable liquid.	Flammability	: Flammable liquid.
Lower and upper explosion: LEL: 0.7% (Light Aromatic Hydrocarbons)limitUEL: 13.1% (2-methoxy-1-methylethyl acetate)		
Vapor pressure : 0.95 kPa (7.1 mm Hg)	Vapor pressure	: 0.95 kPa (7.1 mm Hg)
Relative vapor density : 3.66 [Air = 1]	Relative vapor density	: 3.66 [Air = 1]
Relative density : 1.55	Relative density	: 1.55
Solubility(ies)	Solubility(ies)	:
Media Result	Media	Result
cold water Not soluble	cold water	Not soluble

### **SECTION 9: Physical and chemical properties**

	· · ·				
Partition coefficient: n-octan water	<i>ol</i> / : Not relevant/applicable due to nature of the product.				
Auto-ignition temperature	: Not relevant/applicable due to nature of the product.				
Decomposition temperature	: Not relevant/applicable due to nature of the product.				
Viscosity	: Kinematic (40°C): <20.5 mm²/s				
Explosive properties	: Under normal conditions of storage and use, hazardous reactions will not occur.				
Oxidizing properties	: Under normal conditions of storage and use, hazardous reactions will not occur.				
Particle characteristics					
Median particle size	: Not relevant/applicable due to nature of the product.				
9.2 Other information					
Heat of combustion	: 8.893 kJ/g				
SECTION 10: Stability and reactivity					
10.1 Reactivity	: The product reacts slowly with water, resulting in the production of carbon dioxide.				
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).				
10.3 Possibility of hazardous reactions	: In closed containers, pressure buildup could result in distortion, expansion and, in 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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.				

# 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 hazard classes as defined in Regulation (EC) No 1272/2008

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 nonallergic 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.

#### Acute toxicity

SHW-A4-EU-CLP44-NO

### **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Hydrocarbons, C9, aromatics	LD50 Oral	Rat	8400 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	LD50 Oral	Rat	14000 mg/kg	-

#### Acute toxicity estimates

Route	ATE value		
Dermal	6730.13 mg/kg		
Inhalation (gases)	40992.61 ppm		
Inhalation (vapors)	380.19 mg/l		

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Hydrocarbons, C9, aromatics	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
				uL	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
-	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	

Conclusion/Summary

: Not available.

: Not available.

#### **Sensitization**

No data available

#### Conclusion/Summary

**Mutagenicity** 

No data available

**Carcinogenicity** No data available

#### **Reproductive toxicity**

No data available

#### **Teratogenicity**

No data available

#### Specific target organ toxicity (single exposure)

### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
Hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3 Category 3	-	Narcotic effects Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2		hearing organs

#### Aspiration hazard

Product/ingredient name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

#### 11.2 Information on other hazards

#### **11.2.1 Endocrine disrupting properties**

Not available.

#### 11.2.2 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
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - <i>Palaemonetes</i> pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	Acute EC50 1300000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 14400000 µg/l Marine water	Fish - Cyprinodon variegatus	96 hours

#### 12.2 Persistence and degradability

Product/ingredient nam	e Test	Result	Dose	Inoculur	n
No data available					
Date of issue/Date of revision	: 15, Apr, 2024	Date of previous issue	: 21, Jan, 2024	Version : 21	12/31

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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#### **SECTION 12: Ecological information**

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene, mixed isomers Ethylbenzene	-	-	Readily Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers Hydrocarbons, C9, aromatics 2-Ethyl-2-(hydroxymethyl) -1,3-propanediol		8.1 to 25.9 10 to 2500 <1	Low High Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### 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 : waste isocyanates 08 05 01\* catalogue (EWC) **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 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.

Date of issue/Date of revision	: 15, Apr, 2024	Date of previous issue	<b>:</b> 21, Jan, 2024	Version : 21	13/31

SHW-A4-EU-CLP44-NO

TG169B

#### **SECTION 13: Disposal considerations**

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)	<ul> <li>packaging containing residues of or contaminated by hazardous substances 15 01 10*</li> </ul>
Special precautions	: 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	ΙΑΤΑ
14.1 UN number or ID 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	111	111	111
14.5 Environmental hazards	No.	No.	No.
Additional information	Tunnel code D/E	Emergency schedules F-E, S-E	-

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 Maritime transport in bulk according to IMO instruments

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.

: Not applicable.

#### 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.

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

#### substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]
TRANSGARD TG16 toluene formaldehyde			3 48 72
Labeling Other EU regulations	: Not applicable.		

VOC content	(2010/75/EU)	:	28	W/W
			433	g/l

Explo	sive precursors	: Not applicable
•	<b>—</b> • • •	

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
Ethylbenzene	Norway Occupational Exposure Limits	etylbenzen	Carc. K	-

# 15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

# **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 RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative N/A = Not available
Key literature references	<ul> <li>Regulation (EC) No. 1272/2008 [CLP]</li> <li>ADR = The European Agreement concerning the International Carriage of</li></ul>
and sources for data	Dangerous Goods by Road <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by</li> <li>Commission Regulation (EU) 2020/878</li> <li>Directive 2012/18/EU, and relative amendments &amp; additions</li> <li>Directive 2008/98/EC, and relative amendments &amp; additions</li> <li>Directive 2009/161/EU, and relative amendments &amp; additions</li> <li>CEPE Guidelines</li>

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

TG169B

SECTION 16: Other info	SECTION 16: Other information						
Classif	tion Justification						
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method						
Full text of abbreviated H statements	H225Highly flammable liquid and vapor.H226Flammable liquid and vapor.H304May be fatal if swallowed and enters airways.H312Harmful in contact with skin.H315Causes skin irritation.H319Causes serious eye irritation.H332Harmful if inhaled.H336May cause respiratory irritation.H361fdSuspected of damaging fertility. Suspected of damaging the unborn child.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH066Repeated exposure may cause skin dryness or cracking.						
Full text of classifications [CLP/GHS]	Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Chronic 2AQUATIC HAZARD (LONG-TERM) - Category 2Aquatic Chronic 3AQUATIC HAZARD (LONG-TERM) - Category 3Asp. Tox. 1ASPIRATION HAZARD - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 3Repr. 2TOXIC TO REPRODUCTION - Category 2Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2STOT RE 2SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 3STOT SE 3SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3						
Date of printing	15, Apr, 2024.						
Date of issue/ Date of revision	15, Apr, 2024						
Date of previous issue	21, Jan, 2024						
	If there is no previous validation date please contact your supplier for more information.						
Version	21						

#### Notice to reader

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

#### **SECTION 16: Other information**

SUMI(s) will be added to the SDS for products if both the following conditions are met:

• The product is classified as hazardous for health

• The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

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. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. 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.

# SUMI Safe Use of Mixtures Information for end-users

#### : Industrial spray painting, no booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

# **Operational conditions**

Title

Place of use : Indoor use

# **Risk management measures (RMM)**

Contributing activity	Process category	Maximum	Ventil	ation	
	(ies) duration		Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours Enhanced (mechanical) room 5 ventilation		5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	bre than 4 hours Enhanced (mechanical) room ventilation		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None Use eye protection according to EN 166.		Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.		Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None None I		None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.

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: No previous validation Version

TRANSGARD TG169 Acrylic Urethane Finish - Base



# Disclaimer

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No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

# SUMI Safe Use of Mixtures Information for end-users

#### : Professional painting, outdoor brush/roller

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Outdoor painting by professionals with brush or roller

# **Operational conditions**

Title

Place of use : Outdoor use

# **Risk management measures (RMM)**

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours Outdoors		3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours Outdoors		3 - 5	
Professional application of coatings and inks by brush or roller	PROC10	More than 4 hours Outdoors 3		3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Outdoors	3 - 5	
Cleaning	PROC05	More than 4 hours	Outdoors	3 - 5	
Waste management	PROC08a	More than 4 hours	Outdoors	3 - 5	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Professional application of coatings and inks by brush or roller	PROC10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.

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# Disclaimer

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TRANSGARD TG169 Acrylic Urethane Finish - Base Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

# SUMI Safe Use of Mixtures Information for end-users

**Title** : Industrial application of coatings and inks by other than spraying-Local exhaust ventilation This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (local exhaust ventilation only)

# **Operational conditions**

Place of use

: Indoor use

# **Risk management measures (RMM)**

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13			Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	fore than 4 hours Enhanced (mechanical) room 5 ventilation		
Cleaning	PROC05	More than 4 hours	More than 4 hours Enhanced (mechanical) room set ventilation		
Waste management	PROC08b	More than 4 hours	e than 4 hours Enhanced (mechanical) room ventilation		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
	PROC05 PROC08b	None			
application Loading of application equipment and handling of			according to EN 166. Use eye protection	tested to EN374. Wear suitable gloves	
application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by other than spraying Film formation - force drying,	PROC08b	None	according to EN 166. Use eye protection according to EN 166. Use eye protection	tested to EN374. Wear suitable gloves tested to EN374. Wear suitable gloves	
application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by other	PROC08b PROC10, PROC13	None	according to EN 166. Use eye protection according to EN 166. Use eye protection according to EN 166.	tested to EN374. Wear suitable gloves tested to EN374. Wear suitable gloves tested to EN374.	

TRANSGARD TG169 Acrylic Urethane Finish - Base Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

See chapter 8 of this Safety Data Sheet for specifications.



# Disclaimer

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TRANSGARD TG169 Acrylic Urethane Finish - Base Industrial application of coatings and inks by other than spraying-Enclosed

# SUMI Safe Use of Mixtures Information for end-users

: Industrial application of coatings and inks by other than spraying-Enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (enclosed application)

# **Operational conditions**

Place of use

Title

: Indoor use

# **Risk management measures (RMM)**

Contributing activity	Process category	Maximum	Ventil	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)		
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards		
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards		
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands		
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	None	None		
Film formation - force drying, stoving and other technologies	PROC02	None	None	None		
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		

TRANSGARD TG169 Acrylic Urethane Finish - Base			Industrial ap	plication of coatings a	nd inks by other than spraying-Enclosed
Application equipment cleaning outside booth	PROC05	None			Wear suitable gloves tested to EN374.
Waste management	PROC08b	None		5 1	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



# Disclaimer

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TRANSGARD TG169 Acrylic Urethane Finish - Base

# SUMI Safe Use of Mixtures Information for end-users

 Title
 : Professional application of coatings and inks by spraying-Outdoor

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Outdoor spray painting by professionals for general applications (e.g. decorative)

# **Operational conditions**

Place of use : Outdoor use

# **Risk management measures (RMM)**

	Process category	Maximum	Ventilation			
	(ies) duration		Туре	ach (air changes per hour)		
Preparation of material for application	PROC05	15 minutes to 1 hour	Outdoors	3 - 5		
Loading of application equipment and handling of coated parts before curing	PROC08a	15 minutes to 1 hour	Outdoors	3 - 5		
Professional application of coatings and inks by spraying	PROC11	15 minutes to 1 hour	Outdoors	3 - 5		
Film formation - force drying, stoving and other technologies	PROC04	15 minutes to 1 hour	Outdoors	3 - 5		
Cleaning	PROC05	15 minutes to 1 hour	Outdoors	3 - 5		
Waste management	PROC08a	15 minutes to 1 hour	Outdoors	3 - 5		
•	Process category (ies)	Respiratory	Eye	Hands		
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Professional application of coatings and inks by spraying	PROC11	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		
Film formation - force drying, stoving and other technologies	PROC04	None	None	None		
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.		

TRANSGARD TG169 Ad	crylic Urethane Finish	ı - Base	Prof	essional application	of coatings and inks by spraying-Outdoor
Waste management	PROC08a	None		Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.

See chapter 8 of this Safety Data Sheet for specifications.



# Disclaimer

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No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

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# SUMI Safe Use of Mixtures Information for end-users

#### : Industrial spray painting, enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with fully-enclosed spraying

# **Operational conditions**

Title

Place of use : Indoor use

# **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum	Ventilation	
		duration	Туре	ach (air changes per hour)
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Full containment/extraction	100 or equivalent
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Contributing activity	Process category (ies)	Respiratory	Eye	Hands
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Industrial application of coatings and inks by spraying	PROC07	None	None	None
Film formation - force drying, stoving and other technologies	PROC02	None	None	None
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Application equipment	PROC05	None	Use eye protection	Wear suitable gloves

TRANSGARD TG169 Acrylic Urethane Finish - Base		Industrial spray painting, enclosed		
Waste management	PROC08b	None	5 1	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



# Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

SUMI	
Safe Use of Mixtures	
Information for end-users	

#### : Industrial spray painting, walk-in booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with walk-in spray booth

# **Operational conditions**

Title

Place of use : Indoor use

### **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum duration	Ventilation	
			Туре	ach (air changes per hour)
Preparation of material for application	PROC05		Enhanced (mechanical) room ventilation	5 - 10
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room ventilation	5 - 10
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	ocal exhaust ventilation	Refer to relevant technical standards
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10
Cleaning	PROC05	More than 4 hours	ocal exhaust ventilation	Refer to relevant technical standards
Application equipment cleaning outside booth	PROC05		Enhanced (mechanical) room ventilation	5 - 10
Waste management	PROC08b		Enhanced (mechanical) room ventilation	5 - 10
Contributing activity	Process category (ies)	Respiratory	Eye	Hands
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Industrial application of coatings and inks by spraying	PROC07	Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	None	None	None
	PROC05	None	Use eye protection	Wear suitable gloves
Cleaning			according to EN 166.	tested to EN374.

TRANSGARD TG169 Acrylic Urethane Finish - Base		Industrial spray painting, walk-in booth		
cleaning outside booth			according to EN 166.	tested to EN374.
Waste management	PROC08b	None	5.	Wear suitable gloves tested to EN374.

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