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 - Additive Product code : TG169A 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 Shewin-Williams UK Limited - Protective & Marine Coatings Division EMEAI Tower Works Kestor Street Bolton Bulz 2AL United Kingdom +44 (0) 1204 521771 The Sherwin-Williams Company Inver France SAS 2 Rue Jean Revaus - BP 80088 - 79102 Thouars CEDEX France e-mail address of person : hse.pm.emea@sherwin.com responsible for this SDS 1.4 Emergency telephone number Mational advisory body/Poison Centre Telephone number Telephone number Steptict Telephone number Steptione of the substance or mixture Product definition 2.1 Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 </th <th></th> <th></th>		
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Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315	Classification according to	Regulation (EC) No. 1272/2008 [CLP/GHS]
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EVe Irrit. Z. H319		
Skin Sens. 1, H317		
STOT SE 3, H335		
STOT RE 2, H373		
Asp. Tox. 1, H304		
Date of issue/Date of revision : 03 Apr. 2024 Date of previous issue : 21 Jan 2024 Version : 7	Data of ionus (Data of multi-	

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

TRANSGARD TG169 Acrylic Urethane Finish - Additive TG169A

SECTION 2: Hazards identification

Aquatic Chronic 3, H412

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

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.

2.2 Label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. 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. Avoid release to the environment. Do not breathe vapour.
Response	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Hexamethylene Diisocyanate Polymer Xylene, mixed isomers Hexamethylene Diisocyanate (max.)
Supplemental label elements	: Contains isocyanates. May produce an allergic reaction. FOR INDUSTRIAL USE ONLY

Special packaging requirements

Not applicable.

2.3 Other hazards

	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 :

3.2 Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Hexamethylene Diisocyanate Polymer	EC: 500-060-2 CAS: 28182-81-2	≥50 - ≤75	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Inhalation (dusts and mists)] = 4.625 mg/l	[1] [2]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤14	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
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: -	≤5	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]
Hexamethylene Diisocyanate (max.)	REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1	≤0.41	Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 0.005 mg/l Resp. Sens. 1, H334: C $\ge 0.5\%$ Skin Sens. 1, H317: C $\ge 0.5\%$	[1] [2]
			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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[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	 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.
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: 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 recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. 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

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 vapour 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 sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised 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 Hexamethylene Diisocyanate Polymer, hexamethylene-di-isocyanate. 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, CO ₂ , powders, water spray or mist.	
Unsuitable extinguishing media	: Do not use water jet.	

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

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SECTION 5: Firefighting measures

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 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, protective equipment and emergency procedures		
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vap Refer to protective measures listed in sections 7 and 8.	our or mist.
	keep unnecessary and unprotected personnel from entering.	
For emergency responders	specialised clothing is required to deal with the spillage, take note of nformation in Section 8 on suitable and unsuitable materials. See also nformation in "For non-emergency personnel".	
6.2 Environmental precautions	Do not allow to enter drains or watercourses. If the product contaminat ivers, or sewers, inform the appropriate authorities in accordance with egulations.	
6.3 Methods and material for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e earth, vermiculite or diatomaceous earth and place in container for disp according to local regulations (see Section 13). Place in a suitable cont ontaminated area should be cleaned immediately with a suitable decor- one possible (flammable) decontaminant comprises (by volume): water thanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) amr olution (5 parts). A non-flammable alternative is sodium carbonate (5 water (95 parts). Add the same decontaminant to the remnants and let everal days until no further reaction in an unsealed container. Once the eached, close container and dispose of according to local regulations 3).	posal tainer. The intaminant. r (45 parts), monia parts) and stand for is stage is
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equip See Section 13 for additional waste treatment information.	nent.

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.

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SECTION 7: Handling a	nd storage
7.1 Precautions for safe handling	 Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour 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 conducting type. Care should be taken when re-opening partly-used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO₂ will be formed which, in closed containers, could result in pressurisation. 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 Vapours are heavier than air and may spread along floors. Vapours 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 vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and
7.2 Conditions for safe storage, including any incompatibilities	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidising 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 unauthorised 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 spilt product. Store in closed original container at temperatures between 5°C and 25°C.
7.3 Specific end use(s) Recommendations	: Not available.
Industrial sector specific solutions	: Not available.
	ds, regular safe removal of waste materials and regular maintenance of spray booth 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
Hexamethylene Diisocyanate Polymer	NAOSH (Ireland, 12/2011). Skin sensitiser. OELV-8hr: 0.02 mg/m ³ , (as NCO) 8 hours. OELV-15min: 0.07 mg/m ³ , (as NCO) 15 minutes.
2-methoxy-1-methylethyl acetate	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 50 ppm 8 hours. OELV-8hr: 275 mg/m ³ 8 hours.
	OELV-15min: 100 ppm 15 minutes. OELV-15min: 550 mg/m ³ 15 minutes.
Xylene, mixed isomers	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values
	OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m ³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m ³ 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 100 ppm 8 hours. OELV-8hr: 442 mg/m ³ 8 hours.
	OELV-15min: 200 ppm 15 minutes. OELV-15min: 884 mg/m ³ 15 minutes.
Hexamethylene Diisocyanate (max.)	NAOSH (Ireland, 5/2021). Sensitization potential. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 0.005 ppm, (as NCO) 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices				
kylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.				
ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.				
nexamethylene-di-isocyanate	NAOSH (Ireland, 1/2011) [Isocyanates] BMGV: 1 µmol/mol creatinine, diamine [in urine]. Sampling time:				

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SECTION 8: Exposure controls/personal protection

	post task.
Recommended monitoring procedures	: 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

: Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-methoxy-1-methylethyl acetate	DNEL	Long term Inhalation	33 mg/m ³	General population [Consumers]	Local
	DNEL	Long term Oral	36 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Dermal	320 mg/kg	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	33 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	550 mg/m³	Workers	Local
	DNEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	275 mg/m ³	Workers	Systemic
Xylene, mixed isomers	DNEL DNEL	Long term Dermal Long term Dermal	212 mg/m³ 125 mg/kg	Workers General population	Systemic Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	174 mg/m³	General population	Systemic
	DNEL	Long term Oral	1.5 mg/kg	General population	Systemic

PNECs

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SECTION 8: Exposure	controls/personal protection
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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.

: 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 vapours 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.
ures
: 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.
: Use safety eyewear designed to protect against splash of liquids.
: Wear suitable gloves tested to EN374.
 Gloves for short term exposure/splash protection (less than 10 min): Nitrile >0.35 mm Gloves for splash protection need to be changed immediately when in contact with chemicals. For long term exposure or spills (breakthrough time >480 min): Use PE laminate gloves as under gloves. 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. 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 material. 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.

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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	 Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
	: 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.
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

cold water	Not soluble	
Media	Result	
Solubility(ies)		
Relative density	1.05	
Relative vapour density	3.66 [Air = 1]	
Vapour pressure	0.95 kPa (7.1 mm Hg)	
Lower and upper explosion limit	LEL: 0.7% (Light Aromatic Hydrocarbons) UEL: 13.1% (2-methoxy-1-methylethyl acetate)	
Flammability	Flammable liquid.	
Evaporation rate	0.8 (butyl acetate = 1)	
Flash point	Closed cup: 32°C [Pensky-Martens Closed Cup]	
Initial boiling point and boiling range	136°C	
Melting point/freezing point	Not relevant/applicable due to nature of the product.	
рН	Not relevant/applicable due to nature of the product. insoluble in water.	
Odour threshold	Not available.	
Odour	Characteristic.	
Colour	Colourless.	
Physical state	Liquid.	
<u>Appearance</u>		

SECTION 9: Physical and chemical properties

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Partition coefficient: n-octan water	vol / : 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.
Oxidising 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.
0.2 Other information	
9.2 Other information	. 0.047 k 1/~
Heat of combustion	: 9.047 kJ/g
SECTION 10: Stability an	d 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 build-up 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: oxidising 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 vapour 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 sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised 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.

SECTION 11: Toxicological information

Contains Hexamethylene Diisocyanate Polymer, hexamethylene-di-isocyanate. May produce an allergic reaction. **Acute toxicity**

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Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene Diisocyanate Polymer	LC50 Inhalation Dusts and mists	Rat	18500 mg/m³	1 hours
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit >5 g/kg		-
	LD50 Oral	Rat	8532 mg/kg	-
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	-
Hexamethylene Diisocyanate (max.)	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours

Acute toxicity estimates

Route	ATE value
Dermal	10867.92 mg/kg
Inhalation (gases)	66195.49 ppm
Inhalation (vapours)	614.18 mg/l
Inhalation (dusts and mists)	1.14 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene	Eyes - Moderate irritant	Rabbit	-	100	-
Diisocyanate Polymer				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
				milligrams	
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

Sensitisation

No data available

Conclusion/Summary : Not available.

<u>Mutagenicity</u>

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: Not available.

No data available

Carcinogenicity

SHW-A4-EU-CLP44-IE

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SECTION 11: Toxicological information

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 2 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.

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SECTION 12: Ecological information

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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

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		Biodeg	radability
Xylene, mixed isomers Ethylbenzene	-		-		Readily Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers Hydrocarbons, C9, aromatics Hexamethylene Diisocyanate (max.)	-	8.1 to 25.9 10 to 2500 57.63	Low High Low

12.4 Mobility in soil

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

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SECTION 13: Disposal considerations

Methods of disposal	: The generation of waste should be avoided or minimised 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 neutralised 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 minimised 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)	 packaging containing residues of or contaminated by hazardous substances 15 01 10*
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. Vapour 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 spilt 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 RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
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	-

SECTION 14: Transport information

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		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 : Not applicable. **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.

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 authorisation

<u>Annex XIV</u>

None of the components are listed.

<u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous</u> <u>substances, mixtures and articles</u>

Product/ingredient nam	ne		%	Designation [Usage]
TRANSGARD TG169 Acrylic Urethane Finish - Additive hexamethylene-di-isocyanate toluene		≥90 ≤0.41 ≤0.1	3 74 48	
Labelling	professional u	ist 24 2023 adequate traii use. ce www.safeusediisocyan	0 1	fore industrial or
Other EU regulations	0			
VOC content (2010/75/E	EU) : 28.3 w/w 299 g/l			
Explosive precursors <u>Seveso Directive</u>	: Not applicable	е.		
This product may add to major accident hazards. National regulations	the calculation for de	termining whether a site i	s within the scope	of the Seveso Directive on
5.2 Chemical safety assessment		Safety Assessment has b	een carried out.	
SECTION 16: Other in	formation			
Indicates information the	at has changed from	previously issued version	۱.	
Abbreviations and acronyms	CLP = Classit 1272/2008] DMEL = Deriv DNEL = Deriv EUH stateme PBT = Persis PNEC = Pred RRN = REAC	Toxicity Estimate fication, Labelling and Par ved Minimal Effect Level ved No Effect Level ent = CLP-specific Hazard tent, Bioaccumulative and licted No Effect Concentra CH Registration Number Persistent and Very Bioac	statement d Toxic ation	ו [Regulation (EC) No.
Date of issue/Date of revision	: 03, Apr, 2024	Date of previous issue	: 21, Jan, 2024	Version : 7 16/32

SECTION 16: Other information

	N/A = Not available
Key literature references	 Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of
and sources for data	Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

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

Clas	sification	Justification
Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 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 Calculation method
Full text of abbreviated H statements	H226FlammaH302HarmfuH304May beH312HarmfuH315CausesH317May caH319CausesH330Fatal ifH332HarmfuH334May cainhaledH336May caH373May caexposuH411Toxic toH412Harmfu	use respiratory irritation. use drowsiness or dizziness. use damage to organs through prolonged or repeated
Full text of classifications [CLP/GHS]	 Acute Tox. 1 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Resp. Sens. 1 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 	ACUTE TOXICITY - Category 1 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 RESPIRATORY SENSITISATION - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
Date of issue/Date of revision	: 03, Apr, 2024 Date of p	previous issue : 21, Jan, 2024 Version : 7 17/32 SHW A4 EU CL B44 IE SHW A4 EU CL B44 IE<

SHW-A4-EU-CLP44-IE

TG169A

SECTION 16: Other information

	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of printing	: 03, Apr, 2024.	
Date of issue/ Date of revision	: 03, Apr, 2024	
Date of previous issue	: 21, Jan, 2024	
	: If there is no previous va information.	alidation date please contact your supplier for more
Version	: 7	

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.

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 make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned 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 may change later the composition, hazards and risks of the product. Products shall should 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/buver/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining 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 held responsible for SDSs obtained from any other source.

: 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, fluidised bed or curtain coating (enclosed application)

Operational conditions

Place of use

Title

: 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	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 - Additive		Industrial application of coatings	s and inks by other than spraying-Enclosed	
Application equipment cleaning outside booth	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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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.

Title : 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

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		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	Local 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	Local 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 protectior factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying,	PROC04	None	None	None	
stoving and other technologies					

TRANSGARD TG169 Acrylic Urethane Finish - Additive		-	Industrial spray painting, wa	
Application equipment cleaning outside booth	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 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.

Title : 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

Place of use : Indoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	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		Enhanced (mechanical) room 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		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	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	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	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

Date of issue/Date of revision : ***

: No previous validation Version

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TRANSGARD TG169 Acrylic Urethane Finish - Additive

See chapter 8 of this Safety Data Sheet for specifications.



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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.

Title : 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

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 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,	PROC02	None	None	None
stoving and other technologies				
stoving and other technologies Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

TRANSGARD TG169 Acrylic Urethane Finish - Additive		Industrial sp	ray painting, enclosed		
	Waste management	PROC08b	None		Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



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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.

Title : 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

Place of use : Outdoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	ntilation	
	(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 - 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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TRANSGARD TG169 Acrylic Urethane Finish -Additive



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: 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

Title

Place of use : Outdoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	ation	
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	1 to 4 hours	Outdoors	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	1 to 4 hours	Outdoors	3 - 5	
Professional application of coatings and inks by spraying	PROC11	1 to 4 hours	Outdoors	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	1 to 4 hours	Outdoors	3 - 5	
Cleaning	PROC05	1 to 4 hours	Outdoors	3 - 5	
Waste management	PROC08a	1 to 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 spraying	PROC11	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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TRANSGARD TG169 Acrylic Urethane Finish -Additive



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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, fluidised 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	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	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.	
		None			
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
coatings and inks by other than spraying Film formation - force drying,	PROC 10, PROC 13	None		0	
coatings and inks by other			according to EN 166.	tested to EN374.	

TRANSGARD TG169 Acrylic Urethane Finish - Additive

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