# SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1 Product identifier		
Product name	: PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS	
Product code	: TZ5620/00	
1.2 Relevant identified	uses of the substance or mixture and uses advised against	
Material uses	: Paint or paint related material.	
	: Industrial use only.	
1.3 Details of the suppl sheet	ier of the safety data	
SHERWIN-WILLIAMS Via del Fiffo, 12 - 40065 Italia - C.P. 18		
Cod. Fisc. e Reg. Impr.	Bo 08866930152	
e-mail address of pers responsible for this S		
1.4 Emergency telepho	ne number	
National advisory bod	<u>y/Poison Centre</u>	
Telephone number	: 111 (general public) /0344 892 111 (Medical professional (NHS) only)	
<u>Supplier</u>		
Telephone number	: +39 051 770511	

## *Hours of operation* : Emergency contact available 24 hours a day

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

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373

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

SECTION 2: Hazards identification			
Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements			
Prevention	:	Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour. Wash thoroughly after handling.	
Response	:	Get medical advice/attention if you feel unwell.	
Storage	:	Not applicable.	
Disposal	:	Not applicable.	
Hazardous ingredients	:	Xylene, mixed isomers Toluene Methyl Ethyl Ketone Isobutyl Acetate n-Butyl Acetate Maleic Anhydride	
Supplemental label elements	:	FOR INDUSTRIAL USE ONLY	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.	
Special packaging requirem Not applicable.	<u>nen</u>	<u>ts</u>	
2.3 Other hazards			
		This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	

Other hazards which do : None known. not result in classification

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

:

#### 3.2 Mixture

2/19

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS TZ5620/00

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

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥25 - ≤50	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	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤18	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Methyl Ethyl Ketone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Isobutyl Acetate	REACH #: 01-2119488971-22 EC: 203-745-1 CAS: 110-19-0 Index: 607-026-00-7	≤3	Flam. Liq. 2, H225 STOT SE 3, H336 EUH066	[1] [2]
n-Butyl Acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Maleic Anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H statements declared above.	[1] [2]

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS

#### TZ5620/00

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

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.

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

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

See toxicological information (	Section 11)
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SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	: Recommended: alcohol-resistant foam, carbon dioxide, powders	
Unsuitable extinguishing media	: Do not use water jet.	

PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS

#### TZ5620/00

#### **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.
		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	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
		Keep unnecessary and unprotected personnel from entering.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and material 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.

#### SECTION 7: Handling and storage 7.1 Precautions for safe : Prevent the creation of flammable or explosive concentrations of vapours in air and handling 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. CO<sub>2</sub> 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.

7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations.</li> <li>Notes on joint storage         Keep away from: oxidising agents, strong alkalis, strong acids.     </li> <li>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 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.     </li> </ul>
	Contaminated absorbent material may pose the same hazard as the spilt product.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

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

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

### SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name

Exposure limit values

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### SECTION 8: Exposure controls/personal protection

Xylene, mixed isomers	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin.
	STEL: 441 mg/m <sup>3</sup> 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m <sup>3</sup> 8 hours.
	STEL: 100 ppm 15 minutes.
Toluene	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
	through skin.
	STEL: 384 mg/m <sup>3</sup> 15 minutes.
	TWA: 191 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
-	through skin.
	STEL: 552 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
Methyl Ethyl Ketone	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
	through skin.
	STEL: 899 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
Isobutyl Acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018).
	STEL: 903 mg/m <sup>3</sup> 15 minutes.
	STEL: 187 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
n-Butyl Acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
Maleic Anhydride	EH40/2005 WELs (United Kingdom (UK), 8/2018). Inhalation
	sensitiser.
	STEL: 3 mg/m <sup>3</sup> 15 minutes.
	TWA: 1 mg/m <sup>3</sup> 8 hours.
	If this product contains ingredients with exposure limits, personal, workplace
procedures	atmosphere or biological monitoring may be required to determine the effectiveness
	of the ventilation or other control measures and/or the necessity to use respiratory
	protective equipment. Reference should be made to monitoring standards, such as
	the following: European Standard EN 689 (Workplace atmospheres - Guidance for
	the assessment of exposure by inhalation to chemical agents for comparison with
	limit values and measurement strategy) European Standard EN 14042 (Workplace
	atmospheres - Guide for the application and use of procedures for the assessment
	of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures
	for the measurement of chemical agents) Reference to national guidance
	documents for methods for the determination of hazardous substances will also be
	required.
	•
:	Regular monitoring of all work areas should be carried out at all times, including
	areas that may not be equally ventilated.
DNELs/DMELs	

### SECTION 8: Exposure controls/personal protection

180 mg/kg bw/day 108 mg/kg	Workers	Curete mail:
		Systemic
i uu iiig/kg	General	Systemic
ow/day	population	Systemic
ownuay	[Human via the	
	environment]	
77 mg/m³	Workers	Systemic
· · ···9/···		
289 mg/m³	Workers	Systemic
289 mg/m³	Workers	Local
5		
14.8 mg/m³	General	Systemic
J	population	
	[Human via the	
	environment]	
174 mg/m³	General	Systemic
	population	
	[Consumers]	
174 mg/m³	General	Local
	population	
	[Consumers]	
226 mg/m³	General	Systemic
	population	
	[Human via the	
	environment]	
226 mg/m³	General	Local
	population	
	[Human via the	
$226 \text{ ma}/\text{m}^3$	environment]	Svetomia
226 mg/m³	General	Systemic
	population [Human via the	
	environment]	
226 mg/kg	General	Systemic
ow/day	population	Systemic
	[Human via the	
	environment]	
56.5 mg/m³	General	Systemic
	population	
	[Human via the	
	environment]	
8.13 mg/	General	Systemic
kg bw/day	population	
· •	[Human via the	
	environment]	
192 mg/m³	Workers	Systemic
192 mg/m³	Workers	Local
384 mg/m³	Workers	Systemic
384 mg/m³	Workers	Local
384 mg/kg	Workers	Systemic
ow/day		l
56.5 mg/m³		Local
	population	
1161 mg/	Workers	Systemic
5	6.5 mg/m³ 161 mg/	6.5 mg/m³ General population [Consumers] 161 mg/ Workers

## SECTION 8: Exposure controls/personal protection

DNEL	Long term		Workers	Systemic
DNEL	Inhalation Long term Dermal	412 mg/kg	General	Systemic
		bw/day	population [Consumers]	
DNEL	Long term Inhalation	106 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Oral			Systemic
		-	[Consumers]	
	Inhalation			Systemic
DNEL	Short term Inhalation	960 mg/m³	Workers	Local
DNEL	Long term Inhalation	480 mg/m³	Workers	Systemic
DNEL	Long term Inhalation	480 mg/m³	Workers	Local
DNEL	Short term Inhalation	859.7 mg/ m³	General population [Consumers]	Systemic
DNEL	Short term Inhalation	859.7 mg/ m³	General population	Local
DNEL	Long term	102.34 mg/	General	Systemic
DNEL	Long term Inhalation	102.34 mg/ m³	General population	Local
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Inhalation Long term DermalDNELLong term InhalationDNELLong term OralDNELLong term OralDNELShort term InhalationDNELShort term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term	Inhalation Long term Dermal412 mg/kg bw/dayDNELLong term Inhalation106 mg/m³DNELLong term Oral31 mg/kg bw/dayDNELLong term Oral31 mg/kg bw/dayDNELShort term Inhalation960 mg/m³DNELShort term Inhalation960 mg/m³DNELLong term Inhalation480 mg/m³DNELLong term Inhalation480 mg/m³DNELLong term Inhalation480 mg/m³DNELLong term Inhalation859.7 mg/ m³DNELShort term 	DNELLong term Inhalation600 mg/m³WorkersDNELLong term Dermal412 mg/kg bw/dayGeneral population [Consumers]]DNELLong term Inhalation106 mg/m³General population [Consumers]]DNELLong term Oral31 mg/kg bw/dayGeneral population [Consumers]]DNELLong term Oral31 mg/kg bw/dayGeneral population [Consumers]]DNELShort term Inhalation960 mg/m³WorkersDNELShort term Inhalation960 mg/m³WorkersDNELShort term Inhalation960 mg/m³WorkersDNELLong term Inhalation480 mg/m³WorkersDNELLong term Inhalation480 mg/m³WorkersDNELLong term Inhalation859.7 mg/ m³General population [Consumers]]DNELShort term Inhalation859.7 mg/ m³General population [Consumers]]DNELLong term Inhalation102.34 mg/ general population [Consumers]]DNELLong term102.34 mg/ general

#### PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Xylene, mixed isomers	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Fresh water sediment	12.46 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	, C	
	Soil	2.31 mg/kg	-
	Marine water sediment	12.46 mg/l	-
Toluene	Fresh water sediment	0.68 mg/l	Assessment Factors
	Marine water sediment	0.68 mg/l	Assessment Factors
	Sewage Treatment	13.61 mg/l	Assessment Factors
	Plant	U U	
	Soil	2.89 mg/kg	Assessment Factors
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-
Methyl Ethyl Ketone	Fresh water	55.8 mg/l	-
	Marine water	55.8 mg/l	_
	Sewage Treatment	709 mg/l	_
	Plant	Ŭ	
	Sediment	284.7 mg/kg dwt	_
	Soil	22.5 mg/kg	_
	Secondary Poisoning	1000 mg/kg	_
n-Butyl Acetate	Fresh water	0.18 mg/l	_
	Marine water	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	_
	Marine water sediment	0.0981 mg/kg	-
	Soil	0.0903 mg/kg	-
ate of issue/Date of revision : 09. Aug. 2	020 Date of previous issue	: 07, Aug, 2020	Version : 2.03

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS TZ5620/00					
SECTION 8: Exposure controls/personal protection					
	Sewage Treatment Plant	35.6 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	<ul> <li>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.)</li> <li>Users are advised to consider national Occupational Exposure Limits or other</li> </ul>
	equivalent values.
Individual protection meas	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: 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</li> </ul>
	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.
	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.

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

	: 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	<ul> <li>Application methods: Brush or roller. Approved/certified respirator with organic vapour cartridge. Filter type: A2 P2 (EN14387).</li> <li>Manual spraying. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.</li> </ul>
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**

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

9.1 miormation on pasic physical	d	na chemical properties
<u>Appearance</u>		
Physical state	:	Liquid.
Colour	:	Not available.
Odour	:	Characteristic.
Odour threshold	:	Not available.
рH	:	Not relevant/applicable due to nature of the product.
Melting point/freezing point	:	Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	:	78°C
Flash point	:	Closed cup: 15°C [Pensky-Martens Closed Cup]
Evaporation rate	:	5.6 (butyl acetate = 1)
Flammability (solid, gas)	:	Not relevant/applicable due to nature of the product.
Upper/lower flammability or explosive limits	:	LEL: 1% (Xylene, mixed isomers) UEL: 10% (Methyl Ethyl Ketone)
Vapour pressure	:	12.1 kPa [at 20°C]
Vapour density	:	2.48 [Air = 1]
Relative density	:	1
Solubility(ies)	:	Not relevant/applicable due to nature of the product.
Partition coefficient: n-octanol/ water	:	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): >0.205 cm <sup>2</sup> /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.

#### **SECTION 10: Stability and reactivity**

: The product reacts slowly with water, resulting in the production of carbon dioxide.
: Stable under recommended storage and handling conditions (see Section 7).
<ul> <li>In closed containers, pressure build-up could result in distortion, expansion and, in extreme cases, bursting of the container.</li> </ul>
: In a fire, hazardous decomposition products may be produced.
: Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
<ul> <li>Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.</li> </ul>

#### PROTECTION for additional handling information and protection of employees.

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

#### 11.1 Information on toxicological effects

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

Exposure to component solvent 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.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours	
-	LD50 Oral	Rat	4300 mg/kg	-	
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours	
	LD50 Oral	Rat	636 mg/kg	-	
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-	
-	LD50 Oral	Rat	3500 mg/kg	-	
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-	
	LD50 Oral	Rat	2737 mg/kg	-	
Isobutyl Acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-	
-	LD50 Oral	Rat	13400 mg/kg	-	
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-	
-	LD50 Oral	Rat	10768 mg/kg	-	
Maleic Anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-	
-	LD50 Oral	Rat	400 mg/kg	-	

#### Acute toxicity estimates

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

Route	ATE value
Dermal	4003.08 mg/kg
Inhalation (gases)	18195.84 ppm
Inhalation (vapours)	225.61 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	-	24 hours 500	-
	Ohin Madanata invitant	Dahkit		mg	
Talaasa	Skin - Moderate irritant	Rabbit	-	100 %	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	Even Mild irritent	Rabbit		100 mg	
	Eyes - Mild irritant Eyes - Severe irritant	Rabbit	-	870 ug 24 hours 2	-
	Eyes - Severe initant	Rabbit	-	mg	-
	Skin - Mild irritant	Pig	-	24 hours 250	-
		l' '9		UI	
	Skin - Mild irritant	Rabbit	-	435 mg	_
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		B 11.1		mg	
Isobutyl Acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
	Chin Mild instant	Dabbit		mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	_	mg 100 mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		T CODIC	_	mg	
Maleic Anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Not available.		1	1	

**Sensitisation** 

No data available

#### : Not 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
Toluene	Category 3	-	Narcotic effects
Methyl Ethyl Ketone	Category 3	-	Narcotic effects
Isobutyl Acetate n-Butyl 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	-	-
Toluene	Category 2	-	-
Ethylbenzene	Category 2	-	hearing organs
Maleic Anhydride	Category 1	inhalation	respiratory system

#### Aspiration hazard

Product/ingredient name	Result	
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1	
Toluene	ASPIRATION HAZARD - Category 1	
Ethylbenzene	ASPIRATION HAZARD - Category 1	

#### Other information

: Not available.

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

#### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

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

Product/ingredient name	Result	Species	Exposure
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch -	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water		96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
ate of issue/Date of revision :	09, Aug, 2020 Date of previous issue	:07, Aug, 2020 Version :2	2.03 1

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

PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS

TZ5620/00

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

	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	-
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours	
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
Maleic Anhydride	Acute LC50 230 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours	1

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				
Conclusion/Summary	: Not available.	l	I	I
Product/ingredient name	Aquatic half-life	Photo	lysis	Biodegradability
Xylene, mixed isomers	-	-		Readily
Toluene	-	-		Readily
Ethylbenzene	-	-		Readily
Methyl Ethyl Ketone	-	-		Readily
n-Butyl Acetate	-	-		Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	low
Toluene		90	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 Other adverse effects	No known significant effects or critical hazards.
	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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

13.1 Waste treatment methods	
<u>Product</u>	
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*

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

Disposal considerations	<ul> <li>Do not allow to enter drains or watercourses. Residues in empty containers should be neutralised with a decontaminant (see section 6).</li> <li>Dispose of according to all federal, state and local applicable regulations.</li> <li>If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.</li> <li>For further information, contact your local waste authority.</li> </ul>
<u>Packaging</u>	
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)	<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. 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	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.
Additional information	Special provisions 640 (C) 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 Transport in bulk : Not applicable. according to IMO instruments

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS TZ5620/00

#### **SECTION 14: Transport information**

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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Other EU regulations**

VOC content	(2010/75/EU)	:	53.7	w/w
			535	g/l

#### 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

15.2 Chemical safety	: No Chemical Safety Assessment has been carried out.
assessment	

SECTION	16:	Other	information	
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Indicates information th	nat has changed from previously issued version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]</li> <li>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</li> </ul>
Key literature references and sources for data	<ul> <li>Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of 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) 2015/830 Directive 2012/18/EU, and relative amendments &amp; additions Directive 2008/98/EC, and relative amendments &amp; additions Directive 2009/161/EU, and relative amendments &amp; additions CEPE Guidelines</li> </ul>
Date of issue/Date of revision	: 09, Aug, 2020 Date of previous issue : 07, Aug, 2020 Version : 2.03 17/19

#### SECTION 16: Other information

#### Justification Classification Flam. Liq. 2, H225 On basis of test data Acute Tox. 4, H332 Calculation method Skin Irrit. 2, H315 Calculation method Eye Irrit. 2, H319 Calculation method Calculation method Skin Sens. 1, H317 Calculation method Repr. 2, H361d STOT SE 3, H335 Calculation method STOT SE 3, H336 Calculation method STOT RE 2, H373 Calculation method Full text of abbreviated H : H225 Highly flammable liquid and vapour. Flammable liquid and vapour. statements H226 Harmful if swallowed. H302 May be fatal if swallowed and enters airways. H304 Harmful in contact with skin. H312 H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. Causes serious eye irritation. H319 Harmful if inhaled. H332 May cause allergy or asthma symptoms or breathing difficulties if H334 inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. EUH071 Corrosive to the respiratory tract. Full text of classifications : Acute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD -[CLP/GHS] Category 3 **ASPIRATION HAZARD - Category 1** Asp. Tox. 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Repr. 2 **REPRODUCTIVE TOXICITY - Category 2** Resp. Sens. 1 **RESPIRATORY SENSITISATION - Category 1** Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - Category 1A STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED **EXPOSURE - Category 2** STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 Date of printing : 09, Aug, 2020. Date of issue/ Date of : 09, Aug, 2020

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

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revision

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II PU TOPCOAT FOR ELECTROSTATIC - 20 GLOSS TZ5620/00	
SECTION 16: Other information	
Date of previous issue	: 07, Aug, 2020
	. If there is no previous validation date please contact your supplier for more

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

Version

: 2.03

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become 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/buyer/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.