TU0276/22

# SAFETY DATA SHEET

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

1.1 Product identifier

Product name : PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

**Product code** : TU0276/22

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

**Material uses** : Paint or paint related material.

: Industrial use only.

1.3 Details of the supplier of the safety data

sheet

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

Italia - C.P. 18

Cod. Fisc. e Reg. Impr. Bo 08866930152

e-mail address of person :

: regulatory.SWI@sherwin.com

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : 111 (general public) /0344 892 111 (Medical professional (NHS) only)

**Supplier** 

**Telephone number** : +39 051 770511

Hours of operation : Emergency contact available 24 hours a day

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 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

Hazard pictograms







Signal word : Danger

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version : 8.01 1/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

#### SECTION 2: Hazards identification

**Hazard statements**: Highly flammable liquid and vapor.

Causes skin irritation.
Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

**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. Do not

breathe vapor. Wash thoroughly after handling.

Response : Get medical advice or attention if you feel unwell. Take off contaminated clothing

and wash it before reuse.

Storage: Not applicable.Disposal: Not applicable.

Hazardous ingredients : Xylene, mixed isomers

Cyclohexanone

Supplemental label

elements

: FOR INDUSTRIAL USE ONLY

Annex XVII - Restrictions : Not applicable.

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

# **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.

Other hazards which do not result in classification

: None known.

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

#### 3.2 Mixture :

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	≤13	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]
n-Butyl Acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Methyl Ethyl Ketone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤9.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Methyl Isobutyl Ketone	REACH #:	≤6.3	Flam. Liq. 2, H225	[1] [2]

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version : 8.01 2/18

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK
TU0276/22

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

	01-2119473980-30 EC: 203-550-1		Acute Tox. 4, H332 Eye Irrit. 2, H319	
	CAS: 108-10-1 Index: 606-004-00-4		STOT SE 3, H335 EUH066	
Cyclohexanone	REACH #: 01-2119453616-35	<3	Flam. Liq. 3, H226 Acute Tox. 4, H302	[1] [2]
	EC: 203-631-1		Acute Tox. 4, H312	
	CAS: 108-94-1 Index: 606-010-00-7		Acute Tox. 4, H332 Skin Irrit. 2, H315	
	111dex. 000-010-00-7		Eye Dam. 1, H318	
Ethylbenzene	REACH #:	≤3	Flam. Liq. 2, H225	[1] [2]
	01-2119489370-35 EC: 202-849-4		Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs)	
	CAS: 100-41-4		Asp. Tox. 1, H304	
0.50.10	Index: 601-023-00-4	10.0	Aquatic Chronic 3, H412	[4]
2-Ethyl-2- (hydroxymethyl)	REACH #: 01-2119486799-10	≤0.3	Repr. 2, H361	[1]
-1,3-propanediol	EC: 201-074-9 CAS: 77-99-6			
	UAG. 11-88-0		See Section 16 for the full text of the H	
			statements declared above.	

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

#### <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

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 recognized skin cleanser. Do NOT use solvents or thinners.

*Ingestion* : If swallowed, seek medical advice immediately and show this 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

Date of issue/Date of revision: 22, Jul, 2020Date of previous issue: 21, Jul, 2020Version: 8.013/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

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

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

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

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

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

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

#### 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)

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

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

Unsuitable extinguishing

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

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

Hazardous 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 vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version : 8.01 4/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

#### SECTION 6: Accidental release measures

# 6.2 Environmental precautions

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

# 6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).

# 6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

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

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

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

# 7.1 Precautions for safe handling

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

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

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Care should be taken when re-opening partly-used containers. Precautions should be taken to minimize exposure to atmospheric humidity or water.  $CO_2$  will be formed, which, in closed containers, could result in pressurization. Keep away from heat, sparks and flame. No sparking tools should be used.

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

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

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

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

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

### Information on fire and explosion protection

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

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

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version : 8.01 5/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

# **SECTION 7: Handling and storage**

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

#### Notes on joint storage

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

# Additional information on storage conditions

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

from heat and direct sunlight. Keep container tightly closed.

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

prevent leakage.

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

# 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**

ELIAN/2005 MEL a /United Kingdom /UK) 9/2049\ Absorbed
EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
through skin.
STEL: 441 mg/m³ 15 minutes.
TWA: 50 ppm 8 hours.
TWA: 220 mg/m³ 8 hours.
STEL: 100 ppm 15 minutes.
EH40/2005 WELs (United Kingdom (UK), 8/2018).
STEL: 966 mg/m³ 15 minutes.
STEL: 200 ppm 15 minutes.
TWA: 724 mg/m³ 8 hours.
TWA: 150 ppm 8 hours.
EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
through skin.
STEL: 899 mg/m³ 15 minutes.
STEL: 300 ppm 15 minutes.
TWA: 600 mg/m <sup>3</sup> 8 hours.
TWA: 200 ppm 8 hours.
EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
through skin.
STEL: 416 mg/m³ 15 minutes.
STEL: 100 ppm 15 minutes.
TWA: 208 mg/m <sup>3</sup> 8 hours.
TWA: 50 ppm 8 hours.
EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜

Date of issue/Date of revision: 22, Jul, 2020Date of previous issue: 21, Jul, 2020Version: 8.016/18

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

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

through skin.

STEL: 20 ppm 15 minutes.
TWA: 10 ppm 8 hours.

Ethylbenzene

EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin.

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

# Recommended monitoring procedures

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

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Xylene, mixed isomers	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Local
	DNEL	Long term Inhalation	14.8 mg/m³	General population [Human via the environment]	Systemic
	DNEL	Short term Inhalation	174 mg/m³	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	174 mg/m³	General population [Consumers]	Local
n-Butyl Acetate	DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	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	859.7 mg/	General	Local

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version : 8.01 7/18

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK
TU0276/22

# SECTION 8: Exposure controls/personal protection

•	•	·	1 0	I	
		Inhalation	m³	population	
				[Consumers]	
	DNEL	Long term	102.34 mg/	General	Systemic
		Inhalation	m³	population	
				[Consumers]	
	DNEL	Long term	102.34 mg/	General	Local
		Inhalation	m³	population	
				[Consumers]	
Methyl Ethyl Ketone	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
Wearly Early Retorie	DIVEL	Long term berman	kg bw/day	VVOIRCIO	Cystoniio
	DNEL	Long torm		Morkoro	Systemic
	DINEL	Long term	600 mg/m <sup>3</sup>	Workers	Systemic
	DATE	Inhalation	440	0 1	0
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term	106 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	31 mg/kg	General	Systemic
			bw/day	population	•
				[Consumers]	
Methyl Isobutyl Ketone	DNEL	Short term	208 mg/m <sup>3</sup>	Workers	Systemic
Welly 130baty Retorie	DIVE	Inhalation	200 1119/111	VVOIRCIO	Cyclerino
	DNEL	Short term	208 mg/m <sup>3</sup>	Workers	Local
	DIVLL		200 mg/m	VVOIKEIS	Lucai
	DAIEL	Inhalation	00/3	M/ a who was	0
	DNEL	Long term	83 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term	83 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	11.8 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Short term	155.2 mg/	General	Systemic
		Inhalation	m³	population	
				[Consumers]	
	DNEL	Short term	155.2 mg/	General	Local
		Inhalation	m³	population	
			-	[Consumers]	
	DNEL	Long term	14.7 mg/m³	General	Systemic
		Inhalation	1 4.7 1119/111	population	0,00011110
				[Consumers]	
	DNE	l and tarm	117		Local
	DNEL	Long term	14.7 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term Oral	4.2 mg/kg	General	Systemic
		_	bw/day	population	
				[Consumers]	
	<u> </u>		<u> </u>	[	

# **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		
	Soil	2.31 mg/kg	-
	Marine water sediment	12.46 mg/l	-
n-Butyl Acetate	Fresh water	0.18 mg/l	-
•	Marine water	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version : 8.01 8/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

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

	NA - who a second and a second	0.0004	
	Marine water sediment	0.0981 mg/kg	-
	Soil	0.0903 mg/kg	-
	Sewage Treatment	35.6 mg/l	-
	Plant		
Methyl Ethyl Ketone	Fresh water	55.8 mg/l	-
	Marine water	55.8 mg/l	-
	Sewage Treatment	709 mg/l	-
	Plant		
	Sediment	284.7 mg/kg dwt	-
	Soil	22.5 mg/kg	-
	Secondary Poisoning	1000 mg/kg	-
Methyl Isobutyl Ketone	Fresh water	0.6 mg/l	-
	Marine water	0.06 mg/l	-
	Sewage Treatment	27.5 mg/l	-
	Plant		
	Fresh water sediment	8.27 mg/kg dwt	-
	Marine water sediment	0.83 mg/kg dwt	-
	Soil	1.3 mg/kg dwt	-

#### 8.2 Exposure controls

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

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

#### Appropriate engineering controls

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

#### Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection **Skin protection** 

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

Hand protection **Gloves** 

: Wear suitable gloves tested to EN374.

: Gloves for short term exposure/splash protection (less than 10 min): Nitrile >0.35

Gloves for splash protection need to be changed immediately when in contact with

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.

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version: 8.01 9/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

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

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

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

Barrier creams may help to protect the exposed areas of the skin but should not be

applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of

use, as included in the user's risk assessment.

**Body protection**: Personnel should wear antistatic clothing made of natural fibers or of high-

temperature-resistant synthetic fibers.

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity,

wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to

European Standard EN 1149 for further information on material and design

requirements and test methods.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**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

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

#### **Appearance**

Physical state : Liquid.

ColorOdorCharacteristic.Odor thresholdNot available.

pH : 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 : 7

boiling range

: 78°C

Flash point : Closed cup: 13°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)

Vapor pressure : 12.1 kPa [at 20°C] Vapor density : 2.48 [Air = 1]

Relative density : 1.27

**Solubility(ies)** : Not relevant/applicable due to nature of the product.

Date of issue/Date of revision: 22, Jul, 2020Date of previous issue: 21, Jul, 2020Version: 8.0110/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

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

water

Partition coefficient: n-octanol/: 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.

: Kinematic (40°C): >0.205 cm<sup>2</sup>/s Viscosity

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

# SECTION 10: Stability and reactivity

10.1 Reactivity : The product reacts slowly with water, resulting in the production of carbon dioxide.

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

: In closed containers, pressure buildup could result in distortion, expansion and, in 10.3 Possibility of hazardous reactions extreme cases, bursting of the container.

10.4 Conditions to avoid : In a fire, hazardous decomposition products may be produced.

10.5 Incompatible materials : Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols,

water. Uncontrolled exothermic reactions occur with amines and alcohols.

10.6 Hazardous : Decomposition products may include the following materials: carbon monoxide, decomposition products carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric

isocvanates.

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

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

#### 11.1 Information on toxicological effects

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

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

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

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

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

#### **Acute toxicity**

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version: 8.01 11/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	-
Cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-	LD50 Oral	Rat	1800 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	LD50 Oral	Rat	14000 mg/kg	-

# Acute toxicity estimates

Route	ATE value
Oral	83333.33 mg/kg
Dermal	8291.8 mg/kg
Inhalation (gases)	40140.89 ppm
Inhalation (vapors)	153.56 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 UI	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	100 %	-
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	For a Consequence institute of	D-1-1-1		UI	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
Cyalahayanana	Even Covere implement	Dabbit		mg 24 hours 250	
Cyclohexanone	Eyes - Severe irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit		ug 20 mg	_
	Skin - Mild irritant	Human	-	48 hours 50	_
	Skiii - iviiid iiritarit	Tiuman	-	%	_
	Skin - Mild irritant	Rabbit	_	500 mg	_
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	_
Luiyibelizelle	Skin - Mild irritant	Rabbit	_	24 hours 15	_
	Okin Willamtant	Tabbit		mg	

Conclusion/Summary

: Not available.

**Sensitization** 

No data available

Conclusion/Summary

: Not available.

**Mutagenicity** 

Date of issue/Date of revision: 22, Jul, 2020Date of previous issue: 21, Jul, 2020Version: 8.0112/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

# **SECTION 11: Toxicological information**

No data available

#### **Carcinogenicity**

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
Xylene, mixed isomers  n-Butyl Acetate Methyl Ethyl Ketone Methyl Isobutyl Ketone	Category 3 Category 3 Category 3 Category 3	- - -	Respiratory tract irritation Narcotic effects Narcotic effects Respiratory tract irritation

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

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

#### **Aspiration hazard**

Product/ingredient name	Result	
Xylene, mixed isomers Ethylbenzene	ASPIRATION HAZARD - Category 1 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
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
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
Methyl Isobutyl Ketone	Acute LC50 3220000 µg/l Fresh water Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas Fish - Pimephales promelas	96 hours 96 hours
	Chronic NOEC 78 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water	Daphnia - Daphnia magna Fish - Pimephales promelas - Embryo	21 days 33 days
Cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth	72 hours

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version : 8.01 13/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

# **SECTION 12: Ecological information**

•	<del>-</del>	·	
	Acute LC50 527000 µg/l Fresh water	phase Fish - Pimephales promelas	96 hours
	Chronic EC10 3.56 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth	72 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	phase Algae - Pseudokirchneriella	72 hours
Etriyiberizerie	Acute EC30 4000 μg/i Fresii watei	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
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	Acute EC50 13000000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 14400000 μg/l Marine water	Fish - Cyprinodon variegatus	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	Biodegradability
Xylene, mixed isomers	-	-	Readily
n-Butyl Acetate	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
Methyl Isobutyl Ketone	-	-	Readily
Ethylbenzene	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Xylene, mixed isomers 2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	-	8.1 to 25.9 <1	low low

# 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

**12.6 Other adverse effects** : No known significant effects or critical hazards.

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

drains and sewers.

Date of issue/Date of revision: 22, Jul, 2020Date of previous issue: 21, Jul, 2020Version: 8.0114/18

: Yes.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

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

Hazardous waste

European waste catalogue (EWC)

: waste isocyanates 08 05 01\*

Disposal considerations

 Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).
 Dispose of according to all federal, state and local applicable regulations.
 If this product is mixed with other wastes, the original waste product code may no

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned

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

**Packaging** 

Methods of disposal

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

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

Special precautions

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

## **SECTION 14: Transport information**

	ADR/RID	IMDG	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.

Date of issue/Date of revision: 22, Jul, 2020Date of previous issue: 21, Jul, 2020Version: 8.0115/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

# **SECTION 14: Transport information**

**Additional** Special provisions 640 (C) Emergency schedules F-E, Tunnel code D/E information S-F

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.

: Not applicable.

14.7 Transport in bulk according to IMO

instruments

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not

indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

# SECTION 15: Regulatory information

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

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

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

#### **Annex XIV**

None of the components are listed.

Annex XVII - Restrictions : 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) : 33.4 w/w

423 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

Assessment

: No Chemical Safety Assessment has been carried out.

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

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

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

1272/20081

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

Version: 8.01 Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 16/18

PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

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

vPvB = Very Persistent and Very Bioaccumulative

N/A = Not available

Key literature references and sources for data

Date of previous issue

: 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 & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

**CEPE Guidelines** 

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]			
Classi	fication	Justification	
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373		On basis of test data Calculation method Calculation method Calculation method	
Full text of abbreviated H statements	H226 Flamm H302 Harmft H304 May be H312 Harmft H315 Cause: H318 Cause: H319 Cause: H332 Harmft H335 May ca H336 May ca H336 Suspect H373 May ca expost H412 Harmft	flammable liquid and vapor. able liquid and vapor. al if swallowed. e fatal if swallowed and enters airways. al in contact with skin. s skin irritation. s serious eye damage. s serious eye irritation. al if inhaled. ause respiratory irritation. ause drowsiness or dizziness. acted of damaging fertility or the unborn child. ause damage to organs through prolonged or repeated are. all to aquatic life with long lasting effects. ted exposure may cause skin dryness or cracking.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 STOT RE 2	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	
Date of printing	: 22, Jul, 2020.		
Date of issue/ Date of revision	: 22, Jul, 2020		

Version : 8.01

: 21, Jul, 2020

information.

Date of issue/Date of revision : 22, Jul, 2020 Date of previous issue : 21, Jul, 2020 Version: 8.01 17/18

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

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PU BASECOAT PIGMENTED LOW SOLVENT EMISSION - BLACK

TU0276/22

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

#### Notice to reader

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

Date of issue/Date of revision: 22, Jul, 2020Date of previous issue: 21, Jul, 2020Version: 8.0118/18