SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: POLANE® T Plus Polyurethane Enamel - Black
Product code	: F63B70
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 sheet	the safety data
Mfg. in U.S.A and exported b The Sherwin-Williams Compa 101 Prospect Avenue N.W. Cleveland, OH 44115	
EU Only Representative: Vals Zuiveringweg 89 8243 PE Lelystad P.O. Box 2139 The Netherlands Phone: +31 (0)320 29 22 00	spar B.V.
e-mail address of person responsible for this SDS	: sds@sherwin.com
1.4 Emergency telephone nu	ımber
National advisory body/Poi	son Center
Telephone number	: +431 406 43 43
<u>Supplier</u>	
Telephone number	: +1 703-741-5970
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 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

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	
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Signal word	: Danger		
Hazard statements	Highly flammable liquid and vapor. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.		
Precautionary statements			
Prevention	: Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.		
Response	: Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.		
Storage	: Not applicable.		
Disposal	: Not applicable.		
Hazardous ingredients	: Isopropyl Acetate Xylene, mixed isomers		
Supplemental label elements	 Contains maleic anhydride. May produce an allergic reaction. FOR INDUSTRIAL USE ONLY 		
Special packaging require	<u>ments</u>		
Not applicable.			
2.3 Other hazards			
	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated		

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
None known.

Other hazards which do : No not result in classification

SECTION 3: Composition/information on ingredients

:

3.2 Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Isopropyl Acetate	REACH #: 01-2119537214-46 EC: 203-561-1 CAS: 108-21-4 Index: 607-024-00-6	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Castor oil ester	-	≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
n-Butyl Acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤4.6	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Methyl n-Amyl Ketone	REACH #: 01-2119902391-49 EC: 203-767-1	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332	ATE [Oral] = 1600 mg/kg ATE [Inhalation	[1] [2]
Date of issue/Date of revision	: 18, Apr, 2024	Date of previ	ous issue : 23, Jan, 2024	Version : 8.01	2/
				SHW-A4-EU-CLP44-	АТ

Conforms to Regulation POLANE® T Plus Polyurethane	. , .	ACH), Ann	ex II		
F63B70 SECTION 3: Compos	ition/information or	n ingredie	ents		
Toluene	CAS: 110-43-0 Index: 606-024-00-3 REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤1.8	STOT SE 3, H336 Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	(vapours)] = 11 mg/ -	[1] [2]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤3	Aquatic Chronic 3, H412 Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Maleic Anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	<0.001	STOT RE 2, H373 Asp. Tox. 1, H304 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	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Туре</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General	:	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	: 18, Apr, 2024	Date of previous issue	: 23, Jan, 2024	Version : 8.01	3/19
				SHW-A4-EU-CLP44-AT	

F63B70

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 nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 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, CO ₂ , powders, water spray or mist.	
Unsuitable extinguishing media	:	Do not use water jet.	
5.2 Special hazards arising f	ron	n 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	rel	ease measures	

0.11 61301101 pi	ceautions, prote	cuve equipment and emergency procedures
For non-emer personnel	rgency :	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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II POLANE® T Plus Polyurethane Enamel - Black

F63B70

SECTION 6: Accidental release measures

For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

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

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

7.1 Precautions for safe handling	 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. CO₂ will be formed, which, in closed containers, could result in pressurization. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air
	explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth,

Date of issue/Date of revision	: 18, Apr, 2024	Date of previous issue	: 23, Jan, 2024	Version : 8.01	5/19
				SHW-A4-EU-CLP44-AT	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II POLANE® T Plus Polyurethane Enamel - Black F63B70

SECTION 7: Handling and storage

	ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.
7.2 Conditions for safe storage, including any incompatibilities	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
	Contaminated absorbent material may pose the same hazard as the spilled product.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

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
Isopropyl Acetate	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 100 ppm 8 hours. TWA: 420 mg/m ³ 8 hours. CEIL: 100 ppm CEIL: 420 mg/m ³
n-Butyl Acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl acetate (all isomers except tert-butyl acetate)] CEIL: 480 mg/m ³ CEIL: 100 ppm TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Methyl n-Amyl Ketone	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 237 mg/m ³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. PEAK: 473 mg/m ³ , 4 times per shift, 15 minutes.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin. TWA: 50 ppm 8 hours.
Date of issue/Date of revision : 18, Apr, 2024	Date of previous issue : 23, Jan, 2024 Version : 8.01 6/19
	SHW-A4-EU-CLP44-AT

F63B70

SECTION 8: Exposure controls/personal protection

TWA: 190 mg/m ³ 8 hours.
PEAK: 100 ppm, 4 times per shift, 15 minutes.
PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes.
Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
(all isomers)]
PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
TWA: 50 ppm 8 hours.
PEAK: 100 ppm, 4 times per shift, 15 minutes.
TWA: 221 mg/m ³ 8 hours.
Regulation on Limit Values - MAC (Austria, 4/2021). Skin
sensitizer. Inhalation sensitizer.
TWA: 0.1 ppm 8 hours.
TWA: 0.4 mg/m ³ 8 hours.
CEIL: 0.2 ppm, 8 times per shift, 5 minutes.
CEIL: 0.8 mg/m ³ , 8 times per shift, 5 minutes.

Biological exposure indices

Product/ingredient	t name	Exposure indices
toluene		 VGU BEI (Austria, 9/2020) BEI Fitness: 250 µg/l, toluene [in blood]. Sampling time: one year. BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year. BEI Fitness: 130000 /µl, platelets (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 150000 /µl, platelets [in blood]. Sampling time: one year. BEI Fitness: 3700 to 13000 /µl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /µl, leukocytes (non-pathological differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling time: one year. BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. Sampling time: one year. BEI Fitness - women: 12 g/dl, hemoglobin [in blood]. Sampling time: one year. BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year.
xylene		VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
Recommended monitoring procedures	European Stand assessment of of values and mea atmospheres - (of exposure to of (Workplace atm for the measure documents for r required. : Regular monitor	Id be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be ring of all work areas should be carried out at all times, including not be equally ventilated.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-Butyl Acetate	DNEL	Short term	600 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	300 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	300 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	35.7 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term Dermal	11 mg/kg	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	6 mg/kg	General	Systemic
	DINLL	Long term Derma	0 mg/kg	population	Systemic
		Short torm Dormal	6 malka		Sustamia
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
				population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
				population	
	DNEL	Short term Oral	2 mg/kg	General	Systemic
				population	
Methyl n-Amyl Ketone	DNEL	Short term	1516 mg/	Workers	Systemic
		Inhalation	m³		-
	DNEL	Long term Dermal	54.27 mg/	Workers	Systemic
			kg		,
	DNEL	Long term	394.25 mg/	Workers	Systemic
		Inhalation	m ³		
	DNEL	Long term Dermal	23.32 mg/	General	Systemic
	DINEL	Long term Dermai			Systemic
			kg bw/day	population	
				[Consumers]	
	DNEL	Long term	84.31 mg/	General	Systemic
		Inhalation	m³	population	
				[Consumers]	
	DNEL	Long term Oral	23.32 mg/	General	Systemic
		-	kg bw/day	population	-
			0,	[Consumers]	
Toluene	DNEL	Short term	226 mg/m ³	General	Systemic
		Inhalation		population	-,
				[Human via the	
				environment]	
		Short term	$226 m a/m^3$	General	
	DNEL		226 mg/m ³		Local
		Inhalation		population	
				[Human via the	
				environment]	
	DNEL	Long term Dermal	226 mg/m³	General	Systemic
				population	
				[Human via the	
				environment]	
	DNEL	Long term	226 mg/kg	General	Systemic
		Inhalation	bw/day	population	
			,	[Human via the	
				environment]	
	DNEL	Long term	56.5 mg/m ³	General	Systemic
			50.5 mg/m		Systemic
		Inhalation		population	
				[Human via the	
				environment]	
	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
				[Human via the	
				environment]	
	DNEL	Long term	192 mg/m³	Workers	Systemic
		Inhalation			_ ,
te of issue/Date of revision : 18, Apr, 2	024	Date of previous is	l sue : 23, Jan,	2024 Versio	on : 8.01

SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	192 mg/m ³	Workers	Local
	DNEL	Short term	384 mg/m³	Workers	Systemic
	DNEL	Inhalation Short term	204 mg/m^3	Workers	Local
	DINEL	Inhalation	384 mg/m³	VVOIKEIS	LUCAI
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	56.5 mg/m ³	General population [Consumers]	Local
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term	174 mg/m³	General	Systemic
	DNEL	Long term Oral	1.5 mg/kg	General population	Systemic
	4	+		1	

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
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	-
	Sewage Treatment Plant	35.6 mg/l	-
Methyl n-Amyl Ketone	Fresh water	0.0982 mg/l	-
	Marine water	0.00982 mg/l	-
	Fresh water sediment	1.89 mg/kg	-
	Marine water sediment	0.189 mg/kg	-
	Soil	0.321 mg/kg	-
	Sewage Treatment Plant	12.5 mg/l	-
Toluene	Fresh water sediment	0.68 mg/l	Assessment Factors
	Marine water sediment	0.68 mg/l	Assessment Factors
	Sewage Treatment Plant	13.61 mg/l	Assessment Factors
	Soil	2.89 mg/kg	Assessment Factors
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 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.

F63B70

SECTION 8: Exposure controls/personal protection

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 meas	sures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	 Gloves for short term exposure/splash protection (less than 10 min): Nitrile >0.35 mm
	Gloves for splash protection need to be changed immediately when in contact with chemicals. For long term exposure or spills (breakthrough time >480 min): Use PE laminate gloves as under gloves. Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.
	 There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. 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
Other skin protection	 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. 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.

F63B70

SECTION 8: Exposure controls/personal protection

Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

6.3 kPa (47.5 mm Hg) 3.1 [Air = 1] 1.58 Result
3.1 [Air = 1]
3.1 [Air = 1]
6.3 kPa (47.5 mm Hg)
LEL: 1% (Toluene) UEL: 7.9% (Methyl n-Amyl Ketone)
Flammable liquid.
3 (butyl acetate = 1)
Closed cup: 5°C [Pensky-Martens Closed Cup]
85°C
Not relevant/applicable due to nature of the product.
Not relevant/applicable due to nature of the product. insoluble in water.
Not available.
Characteristic.
Black.
Liquid.

Partition coefficient: n-octanol/ : Not relevant/applicable due to nature of the product. water

1

Auto-ignition temperature

Ingredient name		°C	°F	Method	
Methyl n-Amyl Ketone n-Butyl Acetate Toluene		392 415 480	737.6 779 896		
Decomposition temperature	:	Not relevant/applic	cable due to nature o	of the product.	
Viscosity	:	Kinematic (40°C):	>20.5 mm²/s		
Explosive properties	:	Under normal con	ditions of storage ar	d use, hazardous reactions w	/ill not occur.
Oxidizing properties	:	Under normal con	ditions of storage ar	d use, hazardous reactions w	/ill not occur.
Particle characteristics					
Median particle size	:	Not relevant/applic	able due to nature c	f the product.	

SECTION 9: Physical and chemical properties

9.2 Other information

Heat of combustion

: 9.742 kJ/g

SECTION 10: Stability and reactivity					
10.1 Reactivity	:	The product reacts slowly with water, resulting in the production of carbon dioxide.			
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).			
10.3 Possibility of hazardous reactions	:	In closed containers, pressure buildup could result in distortion, expansion and, in extreme cases, bursting of the container.			
10.4 Conditions to avoid	:	In a fire, hazardous decomposition products may be produced.			
10.5 Incompatible materials	:	Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.			
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.			

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

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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

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

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

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl Acetate	LD50 Oral	Rat	6750 mg/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours

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F63B70

SECTION 11: Toxicological information

SECTION IT. TOXICOlogical Information						
	LD50 Oral	Rat	636 mg/kg	-		
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours		
	LD50 Oral	Rat	4300 mg/kg	-		
Maleic Anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-		
	LD50 Oral	Rat	400 mg/kg	-		

Acute toxicity estimates

Route	ATE value
Oral	54079.2 mg/kg
Dermal	74222.43 mg/kg
Inhalation (gases)	452082.07 ppm
Inhalation (vapors)	371.79 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isopropyl Acetate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
	The second Millel Section of	D. L. K		100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Skin - Mild irritant	Dia		mg 24 hours 250	
	Skin - Mild Initant	Pig	-	uL	-
	Skin - Mild irritant	Rabbit		435 mg	_
	Skin - Moderate irritant	Rabbit		24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
3	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	,			mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Maleic Anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Not available.	·			•

Conclusion/Summary

Sensitization

No data available

Conclusion/Summary : Not available.

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

SECTION 11: Toxicological information

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Isopropyl Acetate	Category 3	-	Narcotic effects
n-Butyl Acetate	Category 3	-	Narcotic effects
Methyl n-Amyl Ketone	Category 3	-	Narcotic effects
Toluene	Category 3	-	Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
Maleic Anhydride	Category 1	inhalation	respiratory system

Aspiration hazard

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

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

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

Product/ingredient name	Result	Species	Exposure
Isopropyl Acetate	Acute LC50 110 mg/l Marine water	Crustaceans - Artemia salina	48 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 n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	, Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
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SHW-A4-EU-CLP44-AT

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

POLANE® T Plus Polyurethane Enamel - Black

F63B70

SECTION 12: Ecological information

 Maleic Anhydride	Acute LC50 230 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.	•				
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
n-Butyl Acetate Methyl n-Amyl Ketone Toluene Xylene, mixed isomers	- - - -		- - - -		Readily Readily Readily Readily	,

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene		90	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.
European waste catalogue (EWC)	: waste isocyanates 08 05 01*

F63B70

SECTION 13: Disposal considerations

Disposal considerations	 Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6). Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
<u>Packaging</u>	
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 10*
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil waterways drains and sewers

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT. Marine pollutant (Castor oil ester)	PAINT
14.3 Transport Hazard Class(es)/ Label(s)			3
14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Special provisions</u> 640 (C) <u>Tunnel code</u> D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II POLANE® T Plus Polyurethane Enamel - Black

F63B70

SECTION 14: Transport information

14.7 Maritime transport in : Not applicable.

bulk according to IMO instruments

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
POLANE® T Plus Polyurethane Enamel	≥90	3
toluene	≤1.8	48
decamethylcyclopentasiloxane	≤0.1	70
octamethylcyclotetrasiloxane	< 0.01	70
benzene	<0.1	5
		72

Labeling Other EU regulations

<u>15</u>

VOC content	(2010/75/EU)	:	20.8 328	
Explosive pre	cursors	:	Not a	oplicable.

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

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

Assessment

-

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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	Abbreviations and acronyms	PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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SECTION 16: Other information

Key literature references and sources for data	 Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878
	CEPE Guidelines

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

Classi	fication	Justification
Flam. Liq. 2, H225		On basis of test data
Eye Irrit. 2, H319		Calculation method
Aquatic Chronic 2, H411		Calculation method
Full text of abbreviated H	: H225	Highly flammable liquid and vapor.
statements		Flammable liquid and vapor.
		Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H312	Harmful in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
		Harmful if inhaled.
		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
		May cause drowsiness or dizziness.
		Suspected of damaging the unborn child.
	H372	Causes damage to organs through prolonged or repeated exposure.
		May cause damage to organs through prolonged or repeated
		exposure.
		Very toxic to aquatic life.
		Very toxic to aquatic life with long lasting effects.
		Toxic to aquatic life with long lasting effects.
		Harmful to aquatic life with long lasting effects.
		Repeated exposure may cause skin dryness or cracking.
		Corrosive to the respiratory tract.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Resp. Sens. 1 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1A	2 AQUATIC HAZARD (LONG-TERM) - Category 2

SECTION 16: Other information

	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	: 18, Apr, 2024.	
Date of issue/ Date of revision	: 18, Apr, 2024	
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Version	: 8.01	

Notice to reader

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

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

• The product is classified as hazardous for health

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

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