# SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: POLANE® S Plus Polyurethane Enamel - Yellow
Product code	: F63Y23
Business Area Code	: 16, 25, 29, 30, 41, 222, 231, 310, 323, 324, 412
Product Use Code	: 59

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

- : Paint or paint related material.
- : Industrial use only.

## 1.3 Details of the supplier of the safety data sheet

Mfg. in U.S.A and exported by: The Sherwin-Williams Company 101 Prospect Avenue N.W. Cleveland, OH 44115

Material uses

EU Only Representative: Valspar B.V. Zuiveringweg 89 8243 PE Lelystad P.O. Box 2139 The Netherlands Phone: +31 (0)320 29 22 00 *e-mail address of person* : sds@sherwin.com *responsible for this SDS* 

## 1.4 Emergency telephone number

National advisory body/Poison Center		
Telephone number	: 09 471 977	
<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. 3, H226 STOT SE 3, H336 Aquatic Chronic 3, H412 The product is classified as hazardous

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
--------	------------



· · · · ·
: Warning
: Flammable liquid and vapor. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor.
: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
: Store in a well-ventilated place. Keep container tightly closed.
<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
: heptan-2-one
<ul> <li>Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. FOR INDUSTRIAL USE ONLY</li> </ul>

#### Special packaging requirements

Not applicable.

2.3 Other hazards	
	This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other hazards which do not result in classification	: None known.

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

Methyl n-Amyl Ketone       REACH #: 01-2119902391-49 EC: 203-767-1 CAS: 110-43-0 Index: 606-024-00-3 EC: 255-437-1 CAS: 41556-26-7       ≥25 - ≤50         Bis(pentamethyl-4-piperidyl)       Index: 606-024-00-3 EC: 255-437-1 CAS: 41556-26-7       <1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 STOT SE 3, H336 Skin Sens. 1, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1,	ATE [Oral] = 1600 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I M [Acute] = 1 M [Chronic] = 1	[1] [2]
	Repr. 2, H361f Aquatic Acute 1, H400		[1]
	H410		
BenzotriazoleEC: 247-384-8<1DipentylphenolCAS: 25973-55-1	STOT RE 2, H373 (oral) Aquatic Chronic 4, H413	-	[1] [3] [4]
Methyl pentamethylpiperidyl EC: 280-060-4 ≤0.3 CAS: 82919-37-7	Skin Sens. 1, H317 Repr. 2, H361f Aquatic Acute 1, H400	M [Acute] = 1 M [Chronic] = 1	[1]

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

Aquatic Chronic 1, H410	
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>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

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	: 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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

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

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

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

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

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

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

F63Y23

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

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray or mist.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising fr	on	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 release measures		
6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
		Keep unnecessary and unprotected personnel from entering.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

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

1 00 1 20	
SECTION 6: Accidenta	al release measures
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

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

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

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

7.1 Precautions for safe handling	<ul> <li>Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring</li> </ul>
	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 <sub>2</sub> will be formed,
	which, in closed containers, could result in pressurization. Keep away from heat, sparks and flame. No sparking tools should be used. 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.
7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations.</li> <li>Notes on joint storage</li> <li>Keep away from: oxidizing agents, strong alkalis, strong acids.</li> <li>Additional information on storage conditions</li> <li>Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.</li> <li>Keep container tightly closed.</li> <li>Keep away from sources of ignition. No smoking. Prevent unauthorized access.</li> <li>Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Contaminated absorbent material may pose the same hazard as the spilled product.</li> </ul>
	Contaminated absorbent material may pose the same nazard as the spilled product.

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

## 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
Methyl n-Amyl Ketone	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021).
	STEL: 360 mg/m <sup>3</sup> 15 minutes. STEL: 75 ppm 15 minutes. TWA: 240 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

## **Biological exposure indices**

No exposure indices known.

#### Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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

## **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Methyl n-Amyl Ketone	DNEL	Short term Inhalation	1516 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	54.27 mg/ kg	Workers	Systemic
	DNEL	Long term Inhalation	394.25 mg/ m <sup>3</sup>	Workers	Systemic
	DNEL	0	23.32 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	84.31 mg/ m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	23.32 mg/ kg bw/day	General population [Consumers]	Systemic

## **PNECs**

SHW-A4-EU-CLP44-FI

## F63Y23

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

Compartment Detail	Value	Method Detail
Fresh water	0.0982 mg/l	-
Fresh water sediment	1.89 mg/kg	-
Marine water sediment	0.189 mg/kg	-
Sewage Treatment	12.5 mg/l	-
	Fresh water Marine water Fresh water sediment Marine water sediment Soil	Fresh water0.0982 mg/lMarine water0.00982 mg/lFresh water sediment1.89 mg/kgMarine water sediment0.189 mg/kgSoil0.321 mg/kgSewage Treatment12.5 mg/l

## 8.2 Exposure controls

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

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

Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)
	: Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Individual protection meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	<ul> <li>Gloves for short term exposure/splash protection (less than 10 min): Nitrile &gt;0.35 mm</li> <li>Gloves for splash protection need to be changed immediately when in contact with chemicals.</li> <li>For long term exposure or spills (breakthrough time &gt;480 min): Use PE laminate gloves as under gloves.</li> <li>Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.</li> </ul>
	<ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.</li> <li>The breakthrough time must be greater than the end use time of the product.</li> <li>The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.</li> <li>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> </ul>

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

	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	<ul> <li>Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.</li> </ul>
	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

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

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

## 9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Color	Not available.	
Odor	Characteristic.	
Odor threshold	Not available.	
рH	Not relevant/applicable due to nature of the product. insoluble in water.	
Melting point/freezing point	Not relevant/applicable due to nature of the product.	
Initial boiling point and boiling range	147°C	
Flash point	Closed cup: 39°C [Pensky-Martens Closed Cup]	
Evaporation rate	0.33 (butyl acetate = 1)	
Flammability	Flammable liquid.	
Lower and upper explosion limit	LEL: 1.1% (Methyl n-Amyl Ketone) UEL: 7.9% (Methyl n-Amyl Ketone)	
Vapor pressure	0.51 kPa (3.855 mm Hg)	
Relative vapor density	3.94 [Air = 1]	
Relative density	1.4	
Solubility(ies)		
Media	Result	
cold water	Not soluble	
L	- <u> </u>	

3

POLANE® S Plus Polyurethane Enamel - Yellow

#### F63Y23

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

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

#### Auto-ignition temperature

Ingredient name		°C	°F	Method		
Methyl n-Amyl Ketone		392	737.6			
Decomposition temperature	: No	ot relevant/applic	able due to nature	of the product.		
Viscosity	: Kir	: Kinematic (40°C): >20.5 mm²/s				
Explosive properties	: Un	nder normal cond	ditions of storage ar	nd use, hazardous reactions will not occu		
Oxidizing properties	: Un	nder normal cono	ditions of storage ar	nd use, hazardous reactions will not occu		
Particle characteristics						
Median particle size	: No	t relevant/applic	able due to nature o	of the product.		
.2 Other information						
Heat of combustion	: 9.2	245 kJ/g				
ECTION 10: Stability an	d reacti	ivity				
0.1 Reactivity	: The pr	: The product reacts slowly with water, resulting in the production of carbon dioxide.				
0.2 Chemical stability	: Stable	: Stable under recommended storage and handling conditions (see Section 7).				
0.3 Possibility of azardous reactions		ed containers, pressure buildup could result in distortion, expansion and, in ne cases, bursting of the container.				
0.4 Conditions to avoid	: In a fire	e, hazardous de	composition produc	ets may be produced.		
0.5 Incompatible materials		: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.				
0.6 Hazardous lecomposition products		n dioxide, smoke		following materials: carbon monoxide, , hydrogen cyanide, monomeric		

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,

## F63Y23

## **SECTION 11: Toxicological information**

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.

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Methyl n-Amyl Ketone	LD50 Oral	Rat	1600 mg/kg	-

## Acute toxicity estimates

Route	ATE value		
Oral	6326.51 mg/kg		
Inhalation (vapors)	43.49 mg/l		

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl n-Amyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	

#### Conclusion/Summary

## Sensitization

No data available

#### **Conclusion/Summary** : Not available.

: Not available.

#### **Mutagenicity**

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
Methyl n-Amyl Ketone	Category 3	-	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Benzotriazole Dipentylphenol	Category 2	oral	-

## Aspiration hazard

No data available

## 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

## 11.2.2 Other information

## F63Y23

## **SECTION 11: Toxicological 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
Methyl n-Amyl Ketone	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	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
Methyl n-Amyl Ketone	-		-		Readily	

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
No data available			

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

## 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
heptan-2-one Benzotriazole Dipentylphenol	No Annex XIV (Listed)	N/A Specified	N/A Specified		N/A Annex XIV (Listed)	N/A Specified	N/A Specified

## 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

11/15

#### F63Y23

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

		a		
	O			

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*
Disposal considerations	<ul> <li>Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).</li> <li>Dispose of according to all federal, state and local applicable regulations.</li> <li>If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.</li> <li>For further information, contact your local waste authority.</li> </ul>
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 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.

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	111	111	
14.5 Environmental hazards	No.	No.	No.
Date of issue/Date of rev	ision : 13, Sep, 2023	Date of previous issue : 09, Jun,	2023 Version : 9 12/1 SHW-A4-EU-CLP44-FI

Conforms to Regula POLANE® S Plus Polyure F63Y23	<i>tion (EC) No. 1907/2006 (REA</i> thane Enamel - Yellow	ACH), Annex II	
SECTION 14: Tra	nsport information		
Additional information	Tunnel code D/E	Emergency schedules F-E, S-E	-

14.6 Special precautions for user
 Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in	: 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

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Benzotriazole Dipentylphenol	PBT	Listed	51	2/27/2020
Benzotriazole Dipentylphenol	vPvB	Listed	51	2/27/2020

Substances	s of verv	high con	cern
-			

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Benzotriazole Dipentylphenol	PBT		ED/79/2015	2/5/2018
Benzotriazole Dipentylphenol	vPvB		ED/79/2015	2/5/2018

## 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® S Plus Polyureth toluene octamethylcyclotetrasiloxane		≥90 ≤0.1 <0.01	3 48 70
Labeling	: Not applicable.		
<u>Other EU regulations</u>			
VOC content (2010/75/EU)	: 25.5 w/w 356 g/l		
Explosive precursors <u>Seveso Directive</u>	: Not applicable.		
This product may add to the major accident hazards. National regulations	calculation for determining whether a site is within	the scope of	the Seveso Directive on
5.2 Chemical Safety ssessment	: No Chemical Safety Assessment has been car	ried out.	

## F63Y23

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative N/A = Not available</li> </ul>
Key literature references and sources for data	<ul> <li>Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Directive 2012/18/EU, and relative amendments &amp; additions Directive 2008/98/EC, and relative amendments &amp; additions Directive 2009/161/EU, and relative amendments &amp; additions CEPE Guidelines</li> </ul>

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

Classi	fication	Justification
Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Chronic 3, H412		On basis of test data Calculation method Calculation method
Full text of abbreviated H statements	H302 Ha H317 Ma H332 Ha H336 Ma H361f Su H373 Ma ex H400 Ve H410 Ve H412 Ha	ammable liquid and vapor. Irmful if swallowed. ay cause an allergic skin reaction. Irmful if inhaled. ay cause drowsiness or dizziness. spected of damaging fertility. ay cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life. ry toxic to aquatic life with long lasting effects. Irmful to aquatic life with long lasting effects. ay cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Aquatic Chronic 4 Flam. Liq. 3 Repr. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 4 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Date of printing	: 13, Sep, 2023.	
Date of issue/ Date of revision	: 13, Sep, 2023	

POLANE® S Plus Polyurethane Ena F63Y23	C) No. 1907/2006 (REACH), Annex II amel - Yellow
SECTION 16: Other info	ormation
Date of previous issue	: 09, Jun, 2023

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

#### Version

: 9

## 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 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.