# SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1 Product identifier		
Product name	: PU HARDENER NON YELLOWING	
Product code	: TH0790/00	
1.2 Relevant identified uses	of the substance or mixture and uses advised against	
Material uses	: Paint or paint related material.	
	: Industrial use only.	
1.3 Details of the supplier of sheet	f the safety data	
SHERWIN-WILLIAMS Italy S Via del Fiffo, 12 - 40065 Piar Italia - C.P. 18		
Cod. Fisc. e Reg. Impr. Bo 0	8866930152	
e-mail address of person responsible for this SDS	: regulatory.SWI@sherwin.com	
1.4 Emergency telephone n	umber	
National advisory body/Po	ison Centre	
Telephone number	: 111 (general public) /0344 892 111 (Medical professional (NHS) only)	
<u>Supplier</u>		
Telephone number	: +39 051 770511	
Hours of operation	: Emergency contact available 24 hours a day	

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336

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

## **SECTION 2: Hazards identification**

Hazard statements	<ul> <li>Highly flammable liquid and vapour. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.</li> </ul>
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. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Storage	: Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazardous ingredients	: Isobutyl Acetate Hexamethylene Diisocyanate Polymer Methyl Ethyl Ketone
Supplemental label elements	: Contains isocyanates. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking. FOR INDUSTRIAL USE ONLY
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirem Not applicable.	: Not applicable.

### 2.3 Other hazards

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

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

3.2 Mixture	:	I	1	1
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Isobutyl Acetate	REACH #: 01-2119488971-22 EC: 203-745-1 CAS: 110-19-0 Index: 607-026-00-7	≥25 - ≤50	Flam. Liq. 2, H225 STOT SE 3, H336 EUH066	[1] [2] 🥄
Hexamethylene Diisocyanate Polymer	REACH #: 01-2119485796-17 EC: 500-060-2 CAS: 28182-81-2	≥25 - ≤50	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
Methyl Ethyl Ketone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥10 - <20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
n-Butyl Acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Date of issue/Date of revisio	n : 16, Apr, 2017.	Date of previo	pus issue : 20, Mar, 2017. Version : 4.03	2/14

## SECTION 3: Composition/information on ingredients

Index: 607-025-00-1

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.

Туре

[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

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. : Remove contact lenses, irrigate copiously with clean, fresh water, holding the Eye contact evelids apart for at least 10 minutes and seek immediate medical advice. Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. If swallowed, seek medical advice immediately and show the container or label. Ingestion : Keep person warm and at rest. Do NOT induce vomiting. Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

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

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

Solvents may cause some of the above effects by absorption through the skin. 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.

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

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.

Contains Hexamethylene diisocyanate, oligomers. May produce an allergic reaction.

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

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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PU HARDENER NON YELLOWING

TH0790/00

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

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 f	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.	
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 drains or watercourses.	: to
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**

Due to the organic solvents content of the mixture:

#### 6.1 Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
For emergency responders	:	Keep unnecessary and unprotected personnel from entering. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
6.2 Environmental precautions	:	information in "For non-emergency personnel". Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and material for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.
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).

7.1 Precautions for safe handling	: Due to the organic solvents content of the mixture:
	Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep away from heat, sparks and flame. No sparking tools should be used.

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

	<ul> <li>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.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Never use pressure to empty. Container is not a pressure vessel.</li> <li>Always keep in containers made from the same material as the original one.</li> <li>Comply with the health and safety at work laws.</li> <li>Information on fire and explosion protection</li> <li>Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.</li> <li>When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour in allen below the exposure limits.</li> </ul>
7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations. Notes on joint storage Keep away from: oxidising agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Contaminated absorbent material may pose the same hazard as the spilt product.</li> </ul>
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				
Isobutyl Acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 903 mg/m <sup>3</sup> 15 minutes. STEL: 187 ppm 15 minutes. TWA: 724 mg/m <sup>3</sup> 8 hours.				
Hexamethylene Diisocyanate Polymer	TWA: 150 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 12/2011). Inhalation sensitiser. STEL: 0.07 mg/m <sup>3</sup> , (as NCO) 15 minutes.				
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## SECTION 8: Exposure controls/personal protection

	TWA: 0.02 mg/m <sup>3</sup> , (as NCO) 8 hours.
Methyl Ethyl Ketone	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 899 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
n-Butyl Acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
Recommended monitoring : If	this product contains ingredients with exposure limits, personal, workplace

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	Туре	Exposure	Value	Population	Effects
Hexamethylene Diisocyanate Polymer	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1 mg/m³	Workers	Local
Methyl Ethyl Ketone	DNEL	Long term Dermal	1161 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	412 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	106 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	31 mg/kg bw/day	Consumers	Systemic
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	Consumers	Systemic
	DNEL	Short term Inhalation	859.7 mg/ m³	Consumers	Local
	DNEL	Long term Inhalation	102.34 mg/ m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Inhalation	102.34 mg/ m <sup>3</sup>	Consumers	Local

## PNECs

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

Product/ingredier	nt name	Compartment Detail	Value	Method Detail
Hexamethylene Diisocyanat	e Polymer	Fresh water Fresh water sediment Marine water Marine water sediment Sewage Treatment	0.127 mg/l 266700 mg/kg 0.0127 mg/l 26670 mg/kg 38.3 mg/l	- - - -
Methyl Ethyl Ketone		Plant Soil Fresh water Marine water Sewage Treatment Plant	53182 mg/kg dwt 55.8 mg/l 55.8 mg/l 709 mg/l	- - - -
		Sediment Soil Secondary Poisoning	284.7 mg/kg dwt 22.5 mg/kg 1000 mg/kg	-
n-Butyl Acetate		Fresh water Marine water Fresh water sediment Marine water sediment Soil Sewage Treatment Plant	0.18 mg/l 0.018 mg/l 0.981 mg/kg 0.0981 mg/kg 0.0903 mg/kg 35.6 mg/l	- - - - -
2.2 Exposure controls				
Appropriate engineering controls	achieved by these are n	equate ventilation. Where re / the use of local exhaust ve ot sufficient to maintain cond low the OEL, suitable respira	ntilation and good g centrations of partic	eneral extraction. If ulates and solvent
		dvised to consider national		
Individual protection meas	ures			
Hygiene measures	eating, smo Appropriate Contaminat contaminate	s, forearms and face thorou king and using the lavatory techniques should be used ed work clothing should not ed clothing before reusing. e close to the workstation loo	and at the end of th to remove potentia be allowed out of th Ensure that eyewas	e working period. Ily contaminated clothing. he workplace. Wash
Eye/face protection	: Use safety	eyewear designed to protect	t against splash of li	quids.
Skin protection				
Hand protection	: Wear suitat	ole gloves tested to EN374.		
Gloves	: Short Term	Exposure less than 10 minu	utes Continuous use	e Nitrile gloves.
	Long Term	Exposure Spill / For prolong	ed or repeated han	dling, use PE / PE

Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE Laminate gloves > 8 hours (breakthrough time).

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.

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

	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personnel should wear protective clothing.
Other skin protection	<ul> <li>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.</li> <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</li> </ul>
	approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). 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

Explosive properties			
, , Viscosity		Kinematic (40°C): $<0.205$ cm <sup>2</sup> /s	
Decomposition temperature	:	Not relevant/applicable due to nature of the product.	
Auto-ignition temperature	:	Not Available (Not Tested).	
Partition coefficient: n-octanol/ water	:	Not relevant/applicable due to nature of the product.	
Solubility(ies)	:	Not relevant/applicable due to nature of the product.	
Relative density	:	0.94	
Vapour density	:	2.48 [Air = 1]	
Vapour pressure	:	12.1 kPa [at 20°C]	
Upper/lower flammability or explosive limits		Lower: 1.3% Upper: 10%	
Flammability (solid, gas)		Not relevant/applicable due to nature of the product.	
Evaporation rate		5.6  (butyl acetate = 1)	
Flash point	:	Closed cup: 3°C [Pensky-Martens Closed Cup]	
Initial boiling point and boiling range	:	78°C	
Melting point/freezing point	:	Not relevant/applicable due to nature of the product.	
рH	:	Not Available (Not Tested).	
Odour threshold	:	Not Available (Not Tested).	
Odour	:	Paint	
Colour		Not available.	
Physical state	:	Liquid.	

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

**Oxidising properties** 

: Under normal conditions of storage and use, hazardous reactions will not occur.

#### 9.2 Other information

Heat of combustion	: 18.65 kJ/g	
SECTION 10: Stability ar	reactivity	
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredient	ts.
10.2 Chemical stability	Stable under recommended storage and handling conditions (see Section 7).	
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.	
10.5 Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
10.6 Hazardous decomposition products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.	

# 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 vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. 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.

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

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.

Contains Hexamethylene diisocyanate, oligomers. May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isobutyl Acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
	LD50 Oral	Rat	13400 mg/kg	-
Hexamethylene	LC50 Inhalation Vapour	Rat	18500 mg/m <sup>3</sup>	1 hours
Diisocyanate Polymer				
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
•	LD50 Oral	Rat	10768 mg/kg	-

#### Acute toxicity estimates

Route		ATE value			
Inhalation (vapours)			30.62 mg/l		
Date of issue/Date of revision	: 16, Apr, 2017.	Date of previous issue	: 20, Mar, 2017.	Version : 4.03	9/14

## **SECTION 11: Toxicological information**

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Isobutyl Acetate	Eyes - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Hexamethylene Diisocyanate Polymer	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

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

No data available

: Not available.

## Conclusion/Summary

**Mutagenicity** 

## No data available

#### **Carcinogenicity**

No data available

#### **Reproductive toxicity**

No data available

#### **Teratogenicity**

No data available

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

Product/ingredient name	Category	Route of exposure	Target organs
Isobutyl Acetate Hexamethylene Diisocyanate Polymer	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Methyl Ethyl Ketone n-Butyl Acetate	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

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

Product/ingredient name	Category	Route of exposure	Target organs
No data available			

#### Aspiration hazard

Product/ingredient name	Result
No data available	

#### Other information

: Not available.

Date of issue/Date of revision	: 16, Apr, 2017.	Date of previous issue	: 20, Mar, 2017.	Version : 4.03	10/14
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## **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]

Product/ingredient name	Result	Species	Exposure
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water	0	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
n-Butyl Acetate		Fish - Pimephales promelas Crustaceans - Artemia salina	96 hours 48 hours
	Acute LC50 18000 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 Ethyl Ketone n-Butyl Acetate	-		-		Readily Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene Diisocyanate Polymer	-	367.7	low

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

#### 12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: Not applicable.
12.6 Other adverse effects	: No known signifi

: No known significant effects or critical hazards.

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

<u>Product</u> <i>Methods of disposal</i>	Disposal of	tion of waste should be ave this product, solutions and uirements of environmenta	any by-products	, should at all	times co	
	and any reg recyclable p disposed of	ional local authority require roducts via a licensed was untreated to the sewer unl s with jurisdiction.	ements. Dispose of the disposal contra	of surplus an actor. Waste	nd non- e should r	not be
Hazardous waste	: Yes.					
Date of issue/Date of revision	: 16, Apr, 2017.	Date of previous issue	: 20, Mar, 2017.	Version	: 4.03	11/14

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

European waste catalogue (EWC)	:	waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*
Disposal considerations	:	Do not allow to enter drains or watercourses. 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 minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	:	Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC)	:	packaging containing residues of or contaminated by hazardous substances 15 01 10*
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

#### **SECTION 14: Transport information** ADR/RID IMDG ΙΑΤΑ 14.1 UN number UN1263 UN1263 UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL PAINT RELATED MATERIAL 14.2 UN proper shipping name 14.3 Transport 3 3 3 Hazard Class(es)/ Label(s) 14.4 Packing Ш Ш Ш group 14.5 No. No. No. Environmental hazards Additional Special provisions Emergency schedules information 640 (C) <u>(EmS)</u> F-E, S-E

user

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

14.7 Transport in bulk : Not applicable. according to Annex II of Marpol and the IBC Code

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Bute of issue/Bute of revision	· 10, / p1, 2011.

Tunnel code

(D/E)

## **SECTION 14: Transport information**

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

#### **SECTION 15: Regulatory information**

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

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

#### Annex XIV

None of the components are listed.

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

VOC content	(2010/75/EU)	:	64	w/w
			600	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.

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

#### assessment

SECTION 16: Other information				
Indicates information that	t 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</li> </ul>			
Key literature references and sources for data	<ul> <li>Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 Directive 2012/18/EU, and relative amendments &amp; additions Directive 2008/98/EC, and relative amendments &amp; additions Directive 2009/161/EU, and relative amendments &amp; additions CEPE Guidelines</li> </ul>			

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

ТН0790/00					
SECTION 16: Other information					
Classi	fication	Justification			
Flam. Liq. 2, H225 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336		On basis of test data Calculation method Calculation method Calculation method Calculation method			
Full text of abbreviated H statements	H226 Flamma H317 May ca H319 Causes H332 Harmfu H335 May ca	H226Flammable liquid and vapour.H317May cause an allergic skin reaction.H319Causes serious eye irritation.H332Harmful if inhaled.H335May cause respiratory irritation.			
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H332 EUH066 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336	ACUTE TOXICITY (inhalation) - Category 4 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3			
Date of printing	: 16, Apr, 2017.				
Date of issue/ Date of revision	: 16, Apr, 2017.				
Date of previous issue	: 20, Mar, 2017.				
	: If there is no previous val information.	lidation date please contact your supplier for more			
Version	: 4.03				

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become 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 Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. 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 or local laws. The conditions for use of the product are not under the control of the manufacturer, therefore the customer/buyer/ user is responsible for determining the conditions necessary for the safe use of this product. The customer/ buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.