# **SAFETY DATA SHEET**



8-615 HS420 High Production Clear

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

1.1 Product identifier

Product name : 8-615 HS420 High Production Clear

Product code : 8-615

Product description : Not available.

Product type : Liquid.

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

#### **Identified uses**

Professional spray painting, near-industrial setting

Use in coatings - Clearcoat

### **Uses advised against**

Not applicable.

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

Valspar b.v.

Zuiveringweg 89

8243 PE Lelystad

The Netherlands

tel: +31 (0)320 292200

e-mail address of person

: msds@valspar.com

responsible for this SDS

### **National contact**

Sherwin-Williams UK Limited

Avenue One Station Lane, Witney, United Kingdom

Oxfordshire OX28 4XR

### 1.4 Emergency telephone number

### **National advisory body/Poison Centre**

**Telephone number** : UK: 0-800-014-8126

CALL: +(44)-870-8200418 (Hours of operation - 24 hours)

<u>Supplier</u>

**Telephone number** : Call: +31 (0)320 292200 (8:30AM - 5PM)

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Skin Sens. 1, H317 STOT SE 3, H336

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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





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

Signal word

: Warning

**Hazard statements** 

Flammable liquid and vapour.
 May cause an allergic skin reaction.
 May cause drowsiness or dizziness.

**Precautionary statements** 

**Prevention** 

Response

: Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. Avoid breathing vapour.

: IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of

water. If skin irritation or rash occurs: Get medical advice or attention.

Storage : Store in a well-ventilated place. Keep container tightly closed.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label

elements

: Not applicable.

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

**Special packaging requirements** 

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger :

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

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

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
heptan-2-one	REACH #: 01-2119902391-49 EC: 203-767-1 CAS: 110-43-0 Index: 606-024-00-3	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332	[1] [2]
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl) -4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-	REACH #: 01-0000015075-76 CAS: 104810-48-2	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[1]
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl) -4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-	REACH #: 01-0000015075-76 CAS: 104810-47-1	≤0.3	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[1]

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

	1	<u> </u>		1
(1,1-dimethylethyl)				
-4-hydroxyphenyl]-1-oxopropoxy]-	DEACH #	40.0E	Clair Come 14 11217	[41
bis(1,2,2,6,6-pentamethyl-	REACH #:	<0.25	Skin Sens. 1A, H317	[1]
4-piperidyl) sebacate	01-2119537297-32		Repr. 2, H361	
	EC: 255-437-1		Aquatic Acute 1, H400	
	CAS: 41556-26-7		(M=1)	
			Aquatic Chronic 1,	
	DE 4 011 #		H410 (M=1)	
xylene	REACH #:	≤0.3	Flam. Liq. 3, H226	[1] [2]
	01-2119488216-32		Acute Tox. 4, H312	
	EC: 215-535-7		Acute Tox. 4, H332	
	CAS: 1330-20-7		Skin Irrit. 2, H315	
	Index: 601-022-00-9			
2-hydroxyethyl methacrylate	REACH #:	≤0.3	Skin Irrit. 2, H315	[1]
	01-2119490169-29		Eye Irrit. 2, H319	
	EC: 212-782-2		Skin Sens. 1, H317	
	CAS: 868-77-9			
	Index: 607-124-00-X			
2-methoxy-1-methylethyl acetate	REACH #:	≤0.1	Flam. Liq. 3, H226	[1] [2]
	01-2119475791-29		STOT SE 3, H336	
	EC: 203-603-9			
	CAS: 108-65-6			
	Index: 607-195-00-7			
ethylbenzene	REACH #:	≤0.1	Flam. Liq. 2, H225	[1] [2]
	01-2119489370-35		Acute Tox. 4, H332	
	EC: 202-849-4		STOT RE 2, H373	
	CAS: 100-41-4		(hearing organs)	
	Index: 601-023-00-4		Asp. Tox. 1, H304	
methyl 1,2,2,6,6-pentamethyl-	EC: 280-060-4	<0.1	Skin Sens. 1A, H317	[1]
4-piperidyl sebacate	CAS: 82919-37-7		Repr. 2, H361	
			Aquatic Acute 1, H400	
			(M=1)	
			Aquatic Chronic 1,	
			H410 (M=1)	
dioctyltin dilaurate	REACH #:	≤0.1	Repr. 1B, H360D	[1] [2]
	01-2119979527-19		STOT RE 1, H372	
	EC: 222-883-3		(immune system)	
	CAS: 3648-18-8			
	Index: 050-031-00-9			
toluene	REACH #:	≤0.1	Flam. Liq. 2, H225	[1] [2]
	01-2119471310-51		Skin Irrit. 2, H315	
	EC: 203-625-9		Repr. 2, H361d	
	CAS: 108-88-3		STOT SE 3, H336	
	Index: 601-021-00-3		STOT RE 2, H373	
			Asp. Tox. 1, H304	1
			See Section 16 for	
			the full text of the H	
			statements declared	
			above.	
	1		400101	

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

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

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

### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**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

### **Over-exposure signs/symptoms**

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

### 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.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

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# **SECTION 5: Firefighting measures**

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

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# **6.2 Environmental precautions**

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 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.

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# **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

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### **Seveso Directive - Reporting thresholds**

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

### 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
heptan-2-one	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 475 mg/m³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 237 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³, 0 times per shift, 15 minutes.

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

STEL: 100 ppm, 0 times per shift, 15 minutes. TWA: 220 mg/m<sup>3</sup>, 0 times per shift, 8 hours. TWA: 50 ppm, 0 times per shift, 8 hours. 2-methoxy-1-methylethyl acetate EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 548 mg/m<sup>3</sup> 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m<sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. ethylbenzene EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m<sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. dioctyltin dilaurate EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin compounds, organic, except cyhexatin (ISO) as Sn] Absorbed through skin. STEL: 0.2 mg/m³, (as Sn) 15 minutes. TWA: 0.1 mg/m<sup>3</sup>, (as Sn) 8 hours. toluene EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m<sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 191 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
n-butyl acetate	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m³	[Consumers] General population	Local
	DNEL	Short term Dermal	6 mg/kg bw/day	[Consumers] General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic

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		DAIEL	0 11	0 "	0 1	
		DNEL	Short term Dermal	6 mg/kg	General	Systemic
				bw/day	population	
		DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
		DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
		DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
		DNEL	Long term	48 mg/m³	Workers	Systemic
		DNEL	Inhalation Short term	300 mg/m³	General	Local
		DNEL	Inhalation Short term	300 mg/m³	population General	Systemic
		DNEL	Inhalation Long term	300 mg/m <sup>3</sup>	population Workers	Local
		DNEL	Inhalation Short term	600 mg/m³	Workers	Local
		DNEL	Inhalation Short term	600 mg/m³	Workers	Systemic
he	eptan-2-one	DNEL	Inhalation Long term Oral	23.32 mg/	General	Systemic
				kg bw/day	population	-,
		DNEL	Long term Dermal	23.32 mg/ kg bw/day	General population	Systemic
		DNEL	Long term Dermal	54.27 mg/ kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	84.31 mg/ m³	General population	Systemic
		DNEL	Long term Inhalation	394.25 mg/ m³	Workers	Systemic
		DNEL	Short term Inhalation	1516 mg/ m³	Workers	Systemic
be (1	oly(oxy-1,2-ethanediyl), α-[3-[3-(2H-enzotriazol-2-yl)-5- ,1-dimethylethyl)-4-hydroxyphenyl]	DNEL	Long term Inhalation	0.35 mg/m <sup>3</sup>	Workers	Systemic
-1	-oxopropyl]-ω-hydroxy-	DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic
		DNEL	Long term Inhalation	bw/day 0.085 mg/ m³	General population	Systemic
		DNEL	Long term Dermal	0.25 mg/ kg bw/day	[Consumers] General population	Systemic
		DNEL	Long term Oral	0.025 mg/ kg bw/day	[Consumers] General population [Consumers]	Systemic
		DNEL	Long term Oral	0.025 mg/	General	Systemic
		DNEL	Long term Dermal	kg bw/day 0.025 mg/ kg bw/day	population General population	Systemic
		DNEL	Long term Inhalation	0.085 mg/ m³	General population	Systemic
		DNEL	Long term Dermal	0.25 mg/ kg bw/day	Workers	Systemic
		DNEL	Long term Inhalation	0.35 mg/m <sup>3</sup>	Workers	Systemic
be (1	oly(oxy-1,2-ethanediyl), α-[3-[3-(2H-enzotriazol-2-yl)-5- ,1-dimethylethyl)-4-hydroxyphenyl]	DNEL	Long term Inhalation	0.35 mg/m <sup>3</sup>	Workers	Systemic
	-oxopropyl]-ω-[3-[3-(2H- enzotriazol-2-yl)-5-					

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(1,1-dimethylethyl)-4-hydroxyphenyl]					
-1-oxopropoxy]-	DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic
	DIVLE	Long term Dermai	bw/day	VVOINCIS	Cysternio
	DNEL	Long term	0.085 mg/	General	Systemic
		Inhalation	m³	population [Consumers]	
	DNEL	Long term Dermal	0.25 mg/	General	Systemic
			kg bw/day	population	
				[Consumers]	
	DNEL	Long term Oral	0.025 mg/	General	Systemic
			kg bw/day	population [Consumers]	
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	DNEL	Long term	3.53 mg/m <sup>3</sup>	Workers	Systemic
sebacate	5	Inhalation	. "		
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	0.87 mg/m <sup>3</sup>	General	Systemic
		Inhalation	g	population	- <b>,</b>
	DAIE		4 "	[Consumers]	
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
			DW/day	[Consumers]	
	DNEL	Long term Oral	0.5 mg/kg	General	Systemic
			bw/day	population	
xylene	DNEL	Short term	174 mg/m³	[Consumers] General	Local
Aylene	DIVEE	Inhalation	17 1 111g/111	population	Local
				[Consumers]	_
	DNEL	Short term Inhalation	174 mg/m³	General	Systemic
		IIIIaiaii0II		population [Consumers]	
	DNEL	Long term Oral	12.5 mg/	General	Systemic
	5		kg bw/day	population	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 212 mg/kg	population Workers	Systemic
	DIVLE	Long term berman	bw/day	Workers	Cysternio
	DNEL	Long term	221 mg/m³	Workers	Local
	DNEL	Inhalation	221 ma/m <sup>3</sup>	Workers	Systemic
	DINCL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
	ראורי	Inhalation	000 / 3	population	Cumbo me ! =
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term	442 mg/m³	Workers	Local
	- · · - ·	Inhalation	_		
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
2-hydroxyethyl methacrylate	DNEL	Innaiation Long term Oral	0.83 mg/	General	Systemic
.,,,			kg bw/day	population	•
	DNEL	Long term Dermal	0.83 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 1.3 mg/kg	population Workers	Systemic
	DINEL	Long term Dermal	bw/day	A A OI VOI 2	Cysternic
	DNEL	Long term	2.9 mg/m <sup>3</sup>	General	Systemic
	ראורי	Inhalation	40/ 3	population	Cumbo me ! =
	DNEL	Long term Inhalation	4.9 mg/m <sup>3</sup>	Workers	Systemic

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2-methoxy-1-methylethyl acetate	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	33 mg/m³	General	Local
	DATE	Inhalation	00 / 3	population	
	DNEL	Long term	33 mg/m³	General	Systemic
	DNEL	Inhalation Long term Oral	36 mg/kg	population General	Systemic
	DINEL	Long term Oral	bw/day	population	Oysternic
	DNEL	Long term	275 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	3		
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	550 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation	706 m a/ka	Morkoro	Cuetomie
	DIVEL	Long term Dermal	796 mg/kg bw/day	Workers	Systemic
ethylbenzene	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
outy is on 20110	DIVILLE	Inhalation	1 12 1119/111	Workers	Local
	DMEL	Short term	884 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	15 mg/m³	General	Systemic
	DNEL	Inhalation Long term	77 mg/m³	population Workers	Systemic
	DINLL	Inhalation	77 mg/m	WOIKEIS	Systemic
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
methyl 1,2,2,6,6-pentamethyl-	DNEL	Long term	3.53 mg/m <sup>3</sup>	Workers	Systemic
4-piperidyl sebacate	DNE	Inhalation	0 //	\\/	0
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	0.87 mg/m <sup>3</sup>	General	Systemic
	DIVLE	Inhalation	o.or mg/m	population	Cyclonno
				[Consumers]	
	DNEL	Long term Dermal	1 mg/kg	General	Systemic
			bw/day	population	
	DATE		0.5 //	[Consumers]	
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
			bw/day	[Consumers]	
dioctyltin dilaurate	DNEL	Long term Oral	0.0005 mg/	General	Systemic
,		3	kg bw/day	population	
	DNEL	Long term	0.0009 mg/	General	Systemic
		Inhalation	m³	population	
	DNEL	Long term	0.0035 mg/	Workers	Systemic
toluene	DNEL	Inhalation Long term Oral	m³ 8.13 mg/	General	Systemic
loidelle	DINEL	Long term Oral	kg bw/day	population	Systemic
	DNEL	Long term	56.5 mg/m <sup>3</sup>		Local
		Inhalation	3	population	
	DNEL	Long term	56.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	192 mg/m <sup>3</sup>	Workers	Local
	ראבי	Inhalation	100	\\/orke==	Cyatam:
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	226 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m <sup>3</sup>	General	Systemic
1	l		1		<u> </u>

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# SECTION 8: Exposure controls/personal protection

	Inhalation		population	
DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
		bw/day		•
DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Local
	Inhalation	Ü		
	Short term	384 mg/m <sup>3</sup>	Workers	Systemic
	Inhalation	J		,

### **PNECs**

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine	0.018 mg/l	-
	Sewage Treatment	35.6 mg/l	-
	Plant		
	Fresh water sediment	0.981 mg/kg dwt	-
	Marine water sediment	0.0981 mg/kg dwt	-
	Soil	0.0903 mg/kg dwt	-
neptan-2-one	Fresh water	0.0982 mg/l	_
	Marine water	0.00982 mg/l	_
	Sewage Treatment	12.5 mg/l	_
	Plant	1=10 1119/1	
	Fresh water sediment	1.89 mg/kg dwt	_
	Marine water sediment	0.189 mg/kg dwt	_
	Soil	0.321 mg/kg dwt	_
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	Fresh water	0.0023 mg/l	
enzotriazol-2-yl)-5-(1,1-dimethylethyl)	1 Testi water	0.0023 mg/i	-
4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-			
i-nydroxypnenyij-1-oxopropyij-w-nydroxy-	Marine water	0.00023 mg/l	
			-
	Sewage Treatment	10 mg/l	-
	Plant	0.00//	
	Fresh water sediment	3.06 mg/kg dwt	-
	Marine water sediment	0.306 mg/kg dwt	-
	Soil	2 mg/kg dwt	-
oly(oxy-1,2-ethanediyl), α-[3-[3-(2H-	Fresh water	0.0023 mg/l	-
enzotriazol-2-yl)-5-(1,1-dimethylethyl)			
4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-			
enzotriazol-2-yl)-5-(1,1-dimethylethyl)			
4-hydroxyphenyl]-1-oxopropoxy]-			
	Marine water	0.00023 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Fresh water sediment	3.06 mg/kg dwt	-
	Marine water sediment	0.306 mg/kg dwt	-
	Soil	2 mg/kg dwt	-
is(1,2,2,6,6-pentamethyl-4-piperidyl)	Fresh water	0.0022 mg/l	_
ebacate	i room water	0.0022 mg/i	
obadato	Marine water	0.00022 mg/l	_
	Sewage Treatment	1 mg/l	
	Plant	1 1119/1	-
	Fresh water sediment	1.05 mg/kg dwt	
	Marine water sediment	0.11 mg/kg dwt	-
	Soil		_
dono	Fresh water	0.21 mg/kg dwt	-
ylene		0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment	6.58 mg/l	-
	Plant	10.10 "	
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg dwt	-
-hydroxyethyl methacrylate	Fresh water	0.482 mg/l	-
	Marine water	0.482 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Fresh water sediment	3.79 mg/kg dwt	-
	1	1	1

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

- Exposure controlor	- Protoctic		
	Marine water sediment	3.79 mg/kg dwt	-
	Soil	0.476 mg/kg dwt	-
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l	-
	Marine	0.0635 mg/l	-
	Sewage Treatment	100 mg/l	-
	Plant		
	Fresh water sediment	3.29 mg/kg dwt	-
	Marine water sediment	0.329 mg/kg dwt	-
	Soil	0.29 mg/kg dwt	-
ethylbenzene	Fresh water	0.1 mg/l	-
	Marine water	0.01 mg/l	-
	Sewage Treatment	9.6 mg/l	-
	Plant		
	Fresh water sediment	13.7 mg/kg dwt	-
	Marine water sediment	1.37 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
methyl 1,2,2,6,6-pentamethyl-4-piperidyl	Fresh water	0.0022 mg/l	_
sebacate			
	Marine water	0.00022 mg/l	-
	Sewage Treatment	1 mg/l	-
	Plant		
	Fresh water sediment	1.05 mg/kg dwt	_
	Marine water sediment	0.11 mg/kg dwt	-
	Soil	0.21 mg/kg dwt	-
dioctyltin dilaurate	Fresh water	0.002 µg/l	_
	Marine water	0.0002 µg/l	_
	Sewage Treatment	100 mg/l	_
	Plant		
	Fresh water sediment	0.028 mg/kg dwt	_
	Marine water sediment	0.0028 mg/kg dwt	-
	Soil	0.006 mg/kg dwt	_
	Secondary Poisoning	0.02 mg/kg	_
toluene	Fresh water	0.68 mg/l	_
	Marine water	0.68 mg/l	_
	Sewage Treatment	13.61 mg/l	_
	Plant	,	
	Fresh water sediment	16.39 mg/kg dwt	_
	Marine water sediment	16.39 mg/kg dwt	_
	Soil	2.89 mg/kg dwt	
	1		

### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: chemical splash goggles and/or face shield.

### **Skin protection**

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# SECTION 8: Exposure controls/personal protection

### **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 polyvinyl alcohol (PVA) butyl rubber >= 0.7 mm

< 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **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

#### **Appearance**

Physical state: Liquid.Colour: Colourless.Odour: Fruity.

Odour threshold : Not available.

Melting point/freezing point : Not applicable.

Initial boiling point and boiling : >100°C (>212°F)

range

Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits : Lower: 1%

Upper: 9.8%

Flash point : Closed cup: 34°C (93.2°F)

Auto-ignition temperature : 377°C (710.6°F)

Decomposition temperature : Not applicable.

pH : Not applicable.

Viscosity : Kinematic (40°C): 6 mm<sup>2</sup>/s

Solubility(ies) :

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not applicable.

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

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : 1.3 kPa (10 mm Hg) Evaporation rate : 1 (butyl acetate = 1)

Relative density : 0.997

Density : 0.997 g/cm³
Vapour density : 4 [Air = 1]
Explosive properties : Not available.
Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

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

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

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

**10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not

allow vapour to accumulate in low or confined areas.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials

10.6 Hazardous

decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
heptan-2-one	LC50 Inhalation Vapour	Rat	16.8 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
Poly(oxy-1,2-ethanediyl), α-	LD50 Dermal	Rat	>2000 mg/kg	-
[3-[3-(2H-benzotriazol-2-yl)				
-5-(1,1-dimethylethyl)				
-4-hydroxyphenyl]				
-1-oxopropyl]-ω-hydroxy-				
	LD50 Oral	Rat	>5000 mg/kg	-
Poly(oxy-1,2-ethanediyl), α-	LD50 Dermal	Rat	>2000 mg/kg	-
[3-[3-(2H-benzotriazol-2-yl)				
-5-(1,1-dimethylethyl)				
-4-hydroxyphenyl]				
-1-oxopropyl]-ω-[3-[3-(2H-				
benzotriazol-2-yl)-5-				
(1,1-dimethylethyl)				
		l	1	l l

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# **SECTION 11: Toxicological information**

-4-hydroxyphenyl]				
-1-oxopropoxy]-				
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	>3230 mg/kg	-
4-piperidyl) sebacate				
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapour	Rat - Male	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	5050 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
methyl	LD50 Oral	Rat	>3230 mg/kg	-
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
dioctyltin dilaurate	LD50 Oral	Rat	6450 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	28.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	_

**Conclusion/Summary** 

: Not available.

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
8-615 HS420 High Production Clear	12313.9	N/A	N/A	129.3	N/A
n-butyl acetate	10760	N/A	N/A	N/A	N/A
heptan-2-one	1600	N/A	N/A	16.8	N/A
xylene	4300	1100	5000	29000	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
ethylbenzene	3500	12126	N/A	11	N/A
dioctyltin dilaurate	6450	N/A	N/A	N/A	N/A
toluene	N/A	N/A	N/A	28.1	N/A

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	1	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
heptan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
<u> </u>	1				

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# **SECTION 11: Toxicological information**

: Not available.

: Not available.

	Skin - Mild irritant	Pig	-	mg 24 hours 250 uL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-

**Conclusion/Summary** 

**Sensitisation** 

Conclusion/Summary : Not available.

**Mutagenicity** 

Conclusion/Summary

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

Conclusion/Summary : Not available.

**Teratogenicity** 

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects \
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
dioctyltin dilaurate	Category 1	-	immune system
toluene	Category 2	-	-

### **Aspiration hazard**

Product/ingredient name	Result
ethylbenzene toluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes

: Not available.

of exposure

Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness

**Skin contact**: May cause an allergic skin reaction.

**Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity: No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute EC50 397 mg/l	Algae - Selenastrum capricornutum	72 hours
	Acute EC50 44 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Brine shrimp - Artemia salina	48 hours
	Acute LC50 18 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEC 200 mg/l	Algae	72 hours
heptan-2-one	Acute LC50 131000 μg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl) -5-(1,1-dimethylethyl) -4-hydroxyphenyl] -1-oxopropyl]-ω-hydroxy-	Acute LC50 2.8 mg/l	Fish	96 hours
Poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl) -5-(1,1-dimethylethyl) -4-hydroxyphenyl] -1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl) -4-hydroxyphenyl] -1-oxopropoxy]-	Acute LC50 2.8 mg/l	Fish	96 hours
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	Acute EC50 0.22 mg/l	Algae	72 hours
, ,	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
xylene	Acute EC50 1 to 10 mg/l	Algae	72 hours
-	Acute EC50 1 to 10 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours

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# **SECTION 12: Ecological information**

ocorron 12. Ecolog			
	Acute LC50 8500 μg/l Marine water	Crustaceans - Daggerblade	48 hours
		grass shrimp - Palaemonetes	
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Fathead minnow -	96 hours
		Pimephales promelas	
2-hydroxyethyl methacrylate	Acute EC50 345 mg/l	Algae - Selenastrum	72 hours
	_	capricornutum	
	Acute EC50 210 mg/l	Crustaceans	48 hours
	Acute EC50 380 mg/l	Daphnia	48 hours
	Acute LC50 227 mg/l	Fish	96 hours
	Acute NOEC 160 mg/l	Algae - Selenastrum	72 hours
	_	capricornutum	
	Acute NOEC 25 mg/l	Fish - Oryzias latipes	14 days
	Chronic NOEC 24.1 mg/l	Daphnia	21 days
2-methoxy-1-methylethyl	Acute EC50 >1000 mg/l	Algae - Pseudokirchnerella	96 hours
acetate		subcapitata	
	Acute EC50 408 mg/l	Daphnia - Daphnia - Daphnia	48 hours
	_	magna	
	Acute LC50 134 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Diatom - Skeletonema	72 hours
		costatum	
	Acute EC50 7700 µg/l Marine water	Algae - Diatom - Skeletonema	96 hours
		costatum	
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Brine shrimp -	48 hours
		<i>Artemia sp.</i> - Nauplii	
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
		magna - Neonate	
	Acute LC50 4200 μg/l Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
methyl	Acute EC50 0.22 mg/l	Algae	72 hours
1,2,2,6,6-pentamethyl-			
4-piperidyl sebacate			
	Acute LC50 0.9 mg/l	Fish	96 hours
	Acute NOEC 6.3 mg/l	Daphnia	21 days
toluene	Acute EC50 12.5 mg/l	Algae	72 hours
	Acute EC50 >433 ppm Marine water	Algae - Diatom - Skeletonema	96 hours
		costatum	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Scud -	48 hours
		Gammarus pseudolimnaeus -	
		Adult	
	Acute EC50 3.8 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 5.5 mg/l	Fish - Oncorhynchus kisutch	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Water flea - Daphnia	21 days
		magna	
		<b>J</b> •	

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability - Closed Bottle Test	>80 % - 5 days	-	-
heptan-2-one 2-hydroxyethyl methacrylate	- OECD 301E Ready Biodegradability - Modified OECD Screening Test	69 % - Readily - 28 days 98 % - Readily - 28 days	-	-
	OECD 301C Ready Biodegradability -	92 to 100 % - Readily - 14 days	-	-

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# **SECTION 12: Ecological information**

	Modified MITI Test (I) OECD 301D Ready Biodegradability - Closed Bottle	84 % - Readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	Test OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	100 % - 28 days	-	-
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	83 % - 28 days	-	-

**Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate	-	-	Readily
heptan-2-one	-	-	Readily
2-hydroxyethyl methacrylate	-	-	Readily
2-methoxy-1-methylethyl	-	_	Readily
acetate			
toluene	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	Low
heptan-2-one	2.26	-	Low
xylene	3.12	8.1 to 25.9	Low
2-hydroxyethyl methacrylate	0.42	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
ethylbenzene	3.6	-	Low
dioctyltin dilaurate	-	<100	Low
toluene	2.73	90	Low

### 12.4 Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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

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

# **SECTION 13: Disposal considerations**

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).

### 13.1 Waste treatment methods

**Product** 

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# **SECTION 13: Disposal considerations**

### **Methods of disposal**

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

### **Hazardous waste**

Yes.

### Waste catalogue

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### **Packaging**

**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.

### **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	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINTPAINT	PAINT	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.

### **Additional information**

**ADN** 

ADR/RID : <u>Hazard identification number</u> 30

**Limited quantity** 5 L

**Special provisions** 163, 640E, 650, 367

Tunnel code (D/E)

: The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

**Special provisions** 163, 367, 640E, 650

IMDG : <u>Emergency schedules</u> F-E, \_S-E

**Special provisions** 163, 223, 367, 955

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355.

Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -

Passenger Aircraft: 10 L. Packaging instructions: Y344.

Special provisions A3, A72, A192

# 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.

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# **SECTION 14: Transport information**

14.7 Transport in bulk according to IMO instruments

: Not available.

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

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

### **UK (GB)/REACH**

Annex XIV - List of substances subject to authorisation

#### **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

### **Ozone depleting substances**

Not listed.

### **Prior Informed Consent (PIC)**

Not listed.

### **Persistent Organic Pollutants**

Not listed.

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

### **Seveso Directive**

This product is controlled under the Seveso Directive.

### **Danger criteria**

### Category

P5c

### **EU regulations**

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

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# **SECTION 15: Regulatory information**

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : At least one component is not listed.

China : At least one component is not listed.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): At least one component is not listed.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.
 Philippines : All components are listed or exempted.
 Republic of Korea : At least one component is not listed.
 Taiwan : At least one component is not listed.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments are still

assessment required.

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

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
Skin Sens. 1, H317	On basis of test data Calculation method Calculation method

### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

### **Full text of classifications**

Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2
Flam. Liq. 3
FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3
FLAMMABLE LIQUIDS - Category 3
Repr. 1B
Repr. 2
REPRODUCTIVE TOXICITY - Category 1B
Repr. 2
Skin Irrit. 2
SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - Category 1A

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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# SUMI Safe Use of Mixtures Information for end-users



Title : Professional spray painting, near-industrial setting

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

# **Operational conditions**

Place of use : Indoor use

### Risk management measures (RMM)

Contributing activity	Process category	Maximum duration	Ventilation	
	(ies)		Туре	ach (air changes per hour)
Preparation of material for application	PROC05	1 to 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Loading of application equipment and handling of coated parts before curing	PROC08a	15 minutes to 1 hour	Enhanced (mechanical) room ventilation	5 - 10
Professional application of coatings and inks by spraying	PROC11	1 to 4 hours	Local exhaust ventilation	Refer to relevant technical standards
Film formation - force drying, stoving and other technologies	PROC04	1 to 4 hours	Local exhaust ventilation	Refer to relevant technical standards
Cleaning	PROC05	1 to 4 hours	Enhanced (mechanical) room ventilation	5 - 10
Waste management	PROC08a	15 minutes to 1 hour	Enhanced (mechanical) room ventilation	5 - 10
Contributing activity	Process category (ies)	Respiratory	Eye	Hands
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Professional application of coatings and inks by spraying	PROC11	Compressed-air breathing apparatus to EN 14594 wit an assigned protection factor of at least 20.		Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Film formation - force drying, stoving and other technologies	PROC04	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	None	None
Cleaning	PROC05	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Waste management	PROC08a	Wear a respirator conforming to EN140 with	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in

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8-615 HS420 High Production Cle	ar Profes	Professional spray painting, near-industrial setting		
	an assigned protection	combination with specific		
	factor of at least 10.	activity training.		

See chapter 8 of this Safety Data Sheet for specifications.



### **Disclaimer**

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.