

TEROSON VR 1520

# Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 334754

V009.0

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

#### 1.1. Product identifier

TEROSON VR 1520

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

Intended use:

Finish Resin

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

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

SDSinfo.Adhesive@henkel.com

### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Acute hazards to the aquatic environment Category 1

H400 Very toxic to aquatic life.

Chronic hazards to the aquatic environment Category 1

H410 Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



**Contains** 2-Hydroxyethyl methacrylate

Isobornyl acrylate

Signal word: Warning

**Hazard statement:** H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement:** P261 Avoid breathing mist/spray. **Prevention** P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection.

#### 2.3. Other hazards

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

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

#### 3.2. Mixtures

## Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
REACH-Reg No.				
Isobornyl acrylate 5888-33-5 227-561-6 01-2119957862-25	30- <= 40 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	
2-Hydroxyethyl methacrylate 868-77-9 212-782-2 01-2119490169-29	30- <= 40 %	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		
2-Hydroxy-2- methylpropiophenone 7473-98-5 231-272-0 01-2119472306-39	1- <= 2 %	Aquatic Chronic 3, H412 Acute Tox. 4, Oral, H302		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water. In case of adverse health effects seek medical advice.

Eve contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Rash, Urticaria.

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

See section: Description of first aid measures

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Suitable extinguishing media:

All common extinguishing agents are suitable.

## Extinguishing media which must not be used for safety reasons:

High pressure waterjet

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

In case of fire toxic gases can be released.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

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

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

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

Danger of slipping on spilled product.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

Inform authorities in the event of product spillage to water courses or sewage systems.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

#### **6.4.** Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

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

Ensure good ventilation/extraction.

Store in a cool place in closed original container.

Keep away from heat and direct sunlight.

Keep container tightly sealed.

Do not expose to direct heat.

# 7.3. Specific end use(s)

Finish Resin

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

# 8.1. Control parameters

## **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 7631-86-9 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 7631-86-9 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 7631-86-9 [Silica, amorphous, inhalable dust]		6	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 7631-86-9 [Silica, amorphous, respirable dust]		2,4	Time Weighted Average (TWA):		EH40 WEL

## **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Silicon dioxide 7631-86-9		6	Time Weighted Average (TWA):		IR_OEL
[SILICA, AMORPHOUS] Silicon dioxide 7631-86-9		2,4	Time Weighted Average (TWA):		IR_OEL
[SILICA, AMORPHOUS]			(IWA).		

# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	Compartment		mg/l	ppm	mg/kg	others	
Isobornyl acrylate	aqua		0,001 mg/l		3 3		
5888-33-5	(freshwater)		1,,,,,,				
Isobornyl acrylate	aqua		0,007 mg/l				
5888-33-5	(intermittent		,,,,,,,				
	releases)						
Isobornyl acrylate	aqua (marine		0,0001				
5888-33-5	water)		mg/l				
Isobornyl acrylate	sewage		2 mg/l				
5888-33-5	treatment plant		2 mg/1				
3000 33 3	(STP)						
Isobornyl acrylate	sediment				0,145		
5888-33-5	(freshwater)				mg/kg		
Isobornyl acrylate	sediment		+		0,0145		
5888-33-5	(marine water)				mg/kg		
				1			
Isobornyl acrylate	Soil				0,0285		
5888-33-5 Isobornyl acrylate	Predator	<b> </b>	+	1	mg/kg		no potential for
5888-33-5	Predator						bioaccumulation
			0.402 //				bioaccumulation
2-Hydroxyethyl methacrylate	aqua		0,482 mg/l				
868-77-9	(freshwater)		0.400 "				
2-Hydroxyethyl methacrylate	aqua (marine		0,482 mg/l				
868-77-9	water)						
2-Hydroxyethyl methacrylate	sewage		10 mg/l				
868-77-9	treatment plant						
	(STP)						
2-Hydroxyethyl methacrylate	aqua		1 mg/l				
868-77-9	(intermittent						
	releases)						
2-Hydroxyethyl methacrylate	sediment				3,79 mg/kg		
868-77-9	(freshwater)						
2-Hydroxyethyl methacrylate	sediment				3,79 mg/kg		
868-77-9	(marine water)						
2-Hydroxyethyl methacrylate	Soil				0,476		
868-77-9					mg/kg		
2-Hydroxyethyl methacrylate	Predator						no potential for
868-77-9							bioaccumulation
2-Hydroxyethyl methacrylate	Marine water -		1 mg/l				
868-77-9	intermittent						
2-Hydroxy-2-methylpropiophenone	aqua		0,002 mg/l				
7473-98-5	(freshwater)						
2-Hydroxy-2-methylpropiophenone	aqua (marine		0 mg/l				
7473-98-5	water)						
2-Hydroxy-2-methylpropiophenone	aqua		0,019 mg/l				
7473-98-5	(intermittent						
	releases)						
2-Hydroxy-2-methylpropiophenone	Soil		1		0,001		
7473-98-5			1		mg/kg		
2-Hydroxy-2-methylpropiophenone	sewage		45 mg/l				
7473-98-5	treatment plant		1				
	(STP)						
2-Hydroxy-2-methylpropiophenone	sediment		1		0,009		
7473-98-5	(freshwater)				mg/kg		
2-Hydroxy-2-methylpropiophenone	sediment		1		0,001		
7473-98-5	(marine water)	<u> </u>	<u> </u>		mg/kg		

# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Isobornyl acrylate 5888-33-5	Workers	dermal	Long term exposure - systemic effects		1,39 mg/kg	no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
Isobornyl acrylate 5888-33-5	General population	dermal	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	Workers	dermal	Long term exposure - systemic effects		1,3 mg/kg	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	Workers	Inhalation	Long term exposure - systemic effects		4,9 mg/m3	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	General population	dermal	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	General population	Inhalation	Long term exposure - systemic effects		2,9 mg/m3	no potential for bioaccumulation
2-Hydroxyethyl methacrylate 868-77-9	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	no potential for bioaccumulation
2-Hydroxy-2-methylpropiophenone 7473-98-5	Workers	inhalation	Long term exposure - systemic effects		3,5 mg/m3	
2-Hydroxy-2-methylpropiophenone 7473-98-5	Workers	dermal	Long term exposure - systemic effects		1 mg/kg	
2-Hydroxy-2-methylpropiophenone 7473-98-5	General population	inhalation	Long term exposure - systemic effects		0,9 mg/m3	
2-Hydroxy-2-methylpropiophenone 7473-98-5	General population	dermal	Long term exposure - systemic effects		0,5 mg/kg	
2-Hydroxy-2-methylpropiophenone 7473-98-5	General population	oral	Long term exposure - systemic effects		0,4 mg/kg	

# **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

Engineering controls:

Use only in well ventilated areas.

## Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eve protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

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

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

liquid Delivery form colourless Colour Odor characteristic Physical state liauid

Melting point Not applicable, Product is a liquid Initial boiling point Currently under determination

Flammable liquid Flammability Explosive limits Not available.

Flash point  $> 100 \, ^{\circ}\text{C} (> 212 \, ^{\circ}\text{F}); \text{ no method / method unknown}$ 

No flash point up to 100 °C

Not applicable, The product is not flammable. Auto-ignition temperature

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use

рΗ Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) Currently under determination Viscosity, dynamic 1.000 mPa.s Supplier method (; 25 °C (77 °F))

Solubility (qualitative)

Not miscible or difficult to mix

(20 °C (68 °F); Solvent: Water) Partition coefficient: n-octanol/water

Not applicable Mixture Not available.

Vapour pressure

Density 1,1 g/cm3 no method / method unknown

(20 °C (68 °F))

Relative vapour density: Not available. Particle characteristics Not applicable Product is a liquid

#### 9.2. Other information

Other information not applicable for this product

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

None if used for intended purpose.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions

See section reactivity

## 10.4. Conditions to avoid

None if used for intended purpose.

## 10.5. Incompatible materials

None if used properly.

## 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

# **SECTION 11: Toxicological information**

## General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Isobornyl acrylate 5888-33-5	LD50	4.350 mg/kg	rat	not specified
2-Hydroxyethyl methacrylate 868-77-9	LD50	5.564 mg/kg	rat	FDA Guideline
2-Hydroxy-2- methylpropiophenone 7473-98-5	LD50	1.694 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

# Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Isobornyl acrylate 5888-33-5	LD50	> 3.000 mg/kg	rabbit	not specified
2-Hydroxyethyl methacrylate 868-77-9	LD50	> 5.000 mg/kg	rabbit	not specified
2-Hydroxy-2- methylpropiophenone 7473-98-5	LD50	6.929 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

# Acute inhalative toxicity:

No data available.

## Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Isobornyl acrylate 5888-33-5	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-Hydroxyethyl methacrylate 868-77-9	slightly irritating	24 h	rabbit	Draize Test
2-Hydroxy-2- methylpropiophenone 7473-98-5	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

# Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-Hydroxyethyl methacrylate 868-77-9	Category 2B (mildly irritating to eyes)		rabbit	Draize Test
2-Hydroxy-2- methylpropiophenone 7473-98-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

# Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Isobornyl acrylate 5888-33-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-Hydroxyethyl methacrylate 868-77-9	not sensitising	Buehler test	guinea pig	Buehler test
2-Hydroxyethyl methacrylate 868-77-9	sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
2-Hydroxy-2- methylpropiophenone 7473-98-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

# Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Isobornyl acrylate 5888-33-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobornyl acrylate 5888-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isobornyl acrylate 5888-33-5	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
2-Hydroxyethyl methacrylate 868-77-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Hydroxyethyl methacrylate 868-77-9	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-Hydroxyethyl methacrylate 868-77-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-Hydroxy-2- methylpropiophenone 7473-98-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Hydroxy-2- methylpropiophenone 7473-98-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-Hydroxy-2- methylpropiophenone 7473-98-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-Hydroxyethyl methacrylate 868-77-9	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-Hydroxyethyl methacrylate 868-77-9	negative	oral: gavage		Drosophila melanogaster	not specified

# Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
2-Hydroxyethyl methacrylate 868-77-9	not carcinogenic	inhalation	2 y 6 h/d, 5 d/w	rat	female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)
2-Hydroxyethyl methacrylate 868-77-9	not carcinogenic	inhalation	2 y 6 h/d, 5 d/w	rat	male	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)

# Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Isobornyl acrylate 5888-33-5	NOAEL P 100 mg/kg NOAEL F1 100 mg/kg	screening	oral: gavage	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL P >= $1.000 \text{ mg/kg}$ NOAEL F1 >= $1.000 \text{ mg/kg}$	screening	oral: gavage	rat	equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study)

# STOT-single exposure:

No data available.

# STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Isobornyl acrylate 5888-33-5	NOAEL 100 mg/kg	oral: gavage	once daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL 100 mg/kg	oral: gavage	49 d daily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2-Hydroxyethyl methacrylate 868-77-9	NOAEL 0,352 mg/l	inhalation	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
2-Hydroxy-2- methylpropiophenone 7473-98-5	NOAEL 50 mg/kg	oral: gavage	92-93 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

# **Aspiration hazard:**

No data available.

## 11.2 Information on other hazards

not applicable

# **SECTION 12: Ecological information**

# General ecological information:

Do not empty into drains, soil or bodies of water.

## 12.1. Toxicity

# **Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isobornyl acrylate	LC50	0,704 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish,
5888-33-5					Acute Toxicity Test)
2-Hydroxyethyl methacrylate	LC50	> 100 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish,
868-77-9					Acute Toxicity Test)
2-Hydroxy-2-	LC50	160 mg/l	48 h	Leuciscus idus	OECD Guideline 203 (Fish,
methylpropiophenone		-			Acute Toxicity Test)
7473-98-5					

## **Toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isobornyl acrylate	EC50	1 mg/l	48 h	Daphnia magna	OECD Guideline 202
5888-33-5					(Daphnia sp. Acute
					Immobilisation Test)
2-Hydroxyethyl methacrylate	EC50	380 mg/l	48 h	Daphnia magna	OECD Guideline 202
868-77-9					(Daphnia sp. Acute
					Immobilisation Test)
2-Hydroxy-2-	EC50	> 119 mg/l	48 h	Daphnia magna	OECD Guideline 202
methylpropiophenone					(Daphnia sp. Acute
7473-98-5					Immobilisation Test)

### **Chronic toxicity (aquatic invertebrates):**

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isobornyl acrylate 5888-33-5	NOEC	0,092 mg/l	21 d	1 &	OECD 211 (Daphnia magna, Reproduction Test)
2-Hydroxyethyl methacrylate 868-77-9	NOEC	24,1 mg/l	21 d	1 0	OECD 211 (Daphnia magna, Reproduction Test)

# Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Isobornyl acrylate 5888-33-5	NOEC	0,405 mg/l	72 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
Isobornyl acrylate 5888-33-5	EC50	1,98 mg/l	72 h	1	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	EC50	836 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxyethyl methacrylate 868-77-9	NOEC	400 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxy-2- methylpropiophenone 7473-98-5	EC50	1,95 mg/l	72 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Hydroxy-2- methylpropiophenone 7473-98-5	NOEC	0,194 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

## **Toxicity (microorganisms):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-Hydroxyethyl methacrylate	EC0	> 3.000 mg/l	16 h	Pseudomonas fluorescens	other guideline:
868-77-9					_
2-Hydroxy-2-	EC 50	3 mg/l	3 h		OECD Guideline 209
methylpropiophenone					(Activated Sludge,
7473-98-5					Respiration Inhibition Test)

# 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Isobornyl acrylate 5888-33-5	inherently biodegradable	aerobic	73,9 %	60 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Isobornyl acrylate 5888-33-5	not readily biodegradable.	aerobic	57 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
2-Hydroxyethyl methacrylate 868-77-9	readily biodegradable	aerobic	92 - 100 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2-Hydroxy-2- methylpropiophenone 7473-98-5	readily biodegradable	aerobic	90 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

# 12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Isobornyl acrylate 5888-33-5	37	56 h	24 °C	Danio rerio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

### 12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
Isobornyl acrylate	4,52		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
5888-33-5			Method)
2-Hydroxyethyl methacrylate	0,42	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
868-77-9			Flask Method)
2-Hydroxy-2-	1,62	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
methylpropiophenone			Flask Method)
7473-98-5			

#### 12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Isobornyl acrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
5888-33-5	Bioaccumulative (vPvB) criteria.
2-Hydroxyethyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
868-77-9	Bioaccumulative (vPvB) criteria.
2-Hydroxy-2-methylpropiophenone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
7473-98-5	Bioaccumulative (vPvB) criteria.

# 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you. 080409

# **SECTION 14: Transport information**

#### 14.1. UN number or ID number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

## 14.2. UN proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl

acrylate)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl

acrylate)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl

acrylate)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl

acrylate)

IATA Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate)

## 14.3. Transport hazard class(es)

ADR	9
RID	9
ADN	9
IMDG	9
IATA	9

### 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

### 14.5. Environmental hazards

ADR	<b>Environmentally Hazardous</b>
RID	<b>Environmentally Hazardous</b>
ADN	Environmentally Hazardous

IMDG Marine Pollutant

IATA Environmentally Hazardous

## 14.6. Special precautions for user

ADR	not applicable
	Tunnelcode:
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## **SECTION 15: Regulatory information**

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Not applicable Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

VOC content 0 %

(2010/75/EU)

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL:

Substance with a Union workplace exposure limit

EU EXPLD 1:

Substance listed in Annex I, Reg (EC) No. 2019/1148

EU EXPLD 2

Substance listed in Annex II, Reg (EC) No. 2019/1148

SVHC:

Substance of very high concern (REACH Candidate List)

PBT:

Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

### **Further information:**

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

#### Dear Customer,

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

#### **Annex - Exposure Scenarios:**

Exposure Scenarios for 2-Hydroxyethyl methacrylate can be downloaded under the following link: https://mysds.henkel.com/index.html#/appSelection