

## SAFETY DATA SHEET

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

#### 1.1. Product identifier

Trade name or designation of the mixture	HumiSeal UV20 GEL
Registration number	-
Synonyms	None.
Product code	XW 15703
Issue date	11-08-2019
Version number	01

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

Identified uses	Adhesive
Uses advised against	None known.

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

##### Supplier

Company name	CHASE CORPORATION Zeta Drive Plant
Address	201 Zeta Drive Pittsburgh, Pennsylvania 15238 US

##### Division

Telephone	1-866-932-0800
e-mail	Not available.
Contact person	Not available.

1.4. Emergency telephone number	(+1)703-527-3887	Chemtrec
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### SECTION 2: Hazards identification

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

##### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** R10, T;R23/24/25, Xn;R48/20, Xi;R36/37/38, R43, R52/53

The full text for all R-phrases is displayed in section 16.

##### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable liquids Category 3

##### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

**Environmental hazards**

Hazardous to the aquatic environment,  
long-term aquatic hazard

Category 3

H412 - Harmful to aquatic life with  
long lasting effects.

**Hazard summary****Physical hazards**

Flammable.

**Health hazards**

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitization by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Specific hazards**

None known.

**Main symptoms**

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**2.2. Label elements****Label according to Regulation (EC) No. 1272/2008 as amended****Contains:**

2-hydroxyethyl Acrylate, 2-hydroxyethyl methacrylate, Acrylic Acid, ISOBORNYL ACRYLATE, Isodecyl Acrylate, Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide

**Hazard pictograms****Signal word**

Warning

**Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.

**Storage**

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

**Disposal**

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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**Supplemental label information** 16,12% of the mixture consists of component(s) of unknown acute oral toxicity. 40,98% of the mixture consists of component(s) of unknown acute dermal toxicity. 37,51% of the mixture consists of component(s) of unknown acute inhalation toxicity. 48,51% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 31,65% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**2.3. Other hazards** Not a PBT or vPvB substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-hydroxyethyl methacrylate	10 - < 20	868-77-9 212-782-2	-	607-124-00-X	
<b>Classification:</b>		<b>DSD:</b> Xi;R36/38, R43			D
		<b>CLP:</b> Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319			D
ISOBORNYL ACRYLATE	10 - < 20	5888-33-5 227-561-6	01-2119957862-25-XXXX	607-133-00-9	
<b>Classification:</b>		<b>DSD:</b> Xi;R36/37/38, N;R51/53			A
		<b>CLP:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411			A
Isodecyl Acrylate	5 - < 10	1330-61-6 215-542-5	-	607-133-00-9	
<b>Classification:</b>		<b>DSD:</b> Xi;R36/37/38, N;R51/53			A
		<b>CLP:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411			A
Acrylic Acid	1 - < 3	79-10-7 201-177-9	-	607-061-00-8	#
<b>Classification:</b>		<b>DSD:</b> R10, C;R35, Xn;R20/21/22, N;R50			D
		<b>CLP:</b> Flam. Liq. 3;H226, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1A;H314, Eye Dam. 1;H318, Acute Tox. 4;H332, STOT SE 3;H335, Aquatic Acute 1;H400			D
2-hydroxyethyl Acrylate	< 1	818-61-1 212-454-9	01-2119459345-34-xxxx	607-072-00-8	
<b>Classification:</b>		<b>DSD:</b> T;R24, C;R34, R43, N;R50			D
		<b>CLP:</b> Acute Tox. 3;H311, Skin Corr. 1B;H314, Skin Sens. 1;H317, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 2;H411			D
Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide	< 1	162881-26-7 423-340-5	01-2119936813-33-xxxx	015-189-00-5	
<b>Classification:</b>		<b>DSD:</b> R43, R53			
		<b>CLP:</b> Skin Sens. 1;H317, Aquatic Chronic 4;H413			
Other components below reportable levels	60 - < 70				

#### List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 4.1. Description of first aid measures

##### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

##### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Flammable liquid and vapor.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Water. Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
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**7.2. Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)**

Not available.

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

**8.1. Control parameters**

**Occupational exposure limits**

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value	Form
SILICON DIOXIDE (CAS 112945-52-5)	MAK	4 mg/m3	Inhalable fraction.

**Belgium. Exposure Limit Values.**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	TWA	6 mg/m3 2 ppm

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value	Form
Acrylic Acid (CAS 79-10-7)	TWA	30 mg/m3	
SILICON DIOXIDE (CAS 112945-52-5)	TWA	10 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction.

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value	Form
Acrylic Acid (CAS 79-10-7)	MAC	4 mg/m3 2 ppm	
SILICON DIOXIDE (CAS 112945-52-5)	MAC	6 mg/m3	Total dust.
		2,4 mg/m3	Respirable dust.

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
SILICON DIOXIDE (CAS 112945-52-5)	TWA	2 mg/m3

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
SILICON DIOXIDE (CAS 112945-52-5)	TWA	4 mg/m3	Dust.

**Denmark. Exposure Limit Values**

Components	Type	Value
2-hydroxyethyl Acrylate (CAS 818-61-1)	TLV	5 mg/m3 1 ppm
Acrylic Acid (CAS 79-10-7)	STEL	5,9 mg/m3 2 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value	Form
2-hydroxyethyl Acrylate (CAS 818-61-1)	STEL	10 mg/m3 2 ppm	
	TWA	5 mg/m3 1 ppm	
Acrylic Acid (CAS 79-10-7)	STEL	45 mg/m3 15 ppm	

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value	Form
	TWA	30 mg/m3	
		10 ppm	
SILICON DIOXIDE (CAS 112945-52-5)	TWA	2 mg/m3	Respirable dust.

**Finland. Workplace Exposure Limits**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	45 mg/m3
		15 ppm
	TWA	6 mg/m3
		2 ppm
SILICON DIOXIDE (CAS 112945-52-5)	TWA	5 mg/m3

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	VLE	30 mg/m3
<b>Regulatory status:</b> Indicative limit (VL)		10 ppm
<b>Regulatory status:</b> Indicative limit (VL)	VME	6 mg/m3
<b>Regulatory status:</b> Indicative limit (VL)		2 ppm
<b>Regulatory status:</b> Indicative limit (VL)		

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Acrylic Acid (CAS 79-10-7)	TWA	30 mg/m3	
		10 ppm	
SILICON DIOXIDE (CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
Acrylic Acid (CAS 79-10-7)	AGW	30 mg/m3	
		10 ppm	
SILICON DIOXIDE (CAS 112945-52-5)	AGW	4 mg/m3	Inhalable fraction.

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	60 mg/m3
		20 ppm
	TWA	30 mg/m3
		10 ppm

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
2-hydroxyethyl Acrylate (CAS 818-61-1)	TWA	5 mg/m3
		1 ppm
Acrylic Acid (CAS 79-10-7)	TWA	5,9 mg/m3
		2 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Acrylic Acid (CAS 79-10-7)	TWA	6 mg/m3	
		2 ppm	
SILICON DIOXIDE (CAS 112945-52-5)	TWA	6 mg/m3	Total inhalable dust.
		2,4 mg/m3	Respirable dust.

**Italy. Occupational Exposure Limits**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	59 mg/m3
		20 ppm
	TWA	29 mg/m3
		10 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
2-hydroxyethyl Acrylate (CAS 818-61-1)	TWA	0,5 mg/m3
Acrylic Acid (CAS 79-10-7)	TWA	5 mg/m3
SILICON DIOXIDE (CAS 112945-52-5)	TWA	1 mg/m3

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
2-hydroxyethyl Acrylate (CAS 818-61-1)	STEL	10 mg/m3
		2 ppm
	TWA	5 mg/m3 1 ppm
2-hydroxyethyl methacrylate (CAS 868-77-9)	TWA	20 mg/m3
Acrylic Acid (CAS 79-10-7)	STEL	45 mg/m3 15 ppm
		TWA

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	59 mg/m3 20 ppm
		TWA

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
2-hydroxyethyl methacrylate (CAS 868-77-9)	TLV	11 mg/m3	
		2 ppm	
Acrylic Acid (CAS 79-10-7)	TLV	30 mg/m3	
		10 ppm	
SILICON DIOXIDE (CAS 112945-52-5)	TLV	1,5 mg/m3	Respirable dust.

**Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	29,5 mg/m3
	TWA	10 mg/m3

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	TWA	2 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	10 mg/m <sup>3</sup>
		3,4 ppm
	TWA	5 mg/m <sup>3</sup>
		1,7 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	59 mg/m <sup>3</sup>
		20 ppm
	TWA	29 mg/m <sup>3</sup>
		10 ppm
SILICON DIOXIDE (CAS 112945-52-5)	TWA	0,3 mg/m <sup>3</sup>

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
SILICON DIOXIDE (CAS 112945-52-5)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	59 mg/m <sup>3</sup>
		20 ppm
	TWA	29 mg/m <sup>3</sup>
		10 ppm

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value
2-hydroxyethyl Acrylate (CAS 818-61-1)	STEL	10 mg/m <sup>3</sup>
		2 ppm
	TWA	5 mg/m <sup>3</sup>
		1 ppm
Acrylic Acid (CAS 79-10-7)	Ceiling	59 mg/m <sup>3</sup>
		20 ppm
	TWA	29 mg/m <sup>3</sup>
		10 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	30 mg/m <sup>3</sup>
		10 ppm
	TWA	30 mg/m <sup>3</sup>
		10 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value	Form
SILICON DIOXIDE (CAS 112945-52-5)	TWA	6 mg/m <sup>3</sup>	Inhalable dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.



Components	Type	Value
Acrylic Acid (CAS 79-10-7)	STEL	59 mg/m <sup>3</sup>
		20 ppm
	TWA	29 mg/m <sup>3</sup>
		10 ppm
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).	
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.	
<b>Derived no effect levels (DNELs)</b>	Not available.	
<b>Predicted no effect concentrations (PNECs)</b>	Not available.	
<b>8.2. Exposure controls</b>		
<b>Appropriate engineering controls</b>	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.	
<b>Individual protection measures, such as personal protective equipment</b>		
<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.	
<b>Eye/face protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.	
<b>Skin protection</b>		
<b>- Hand protection</b>	Wear appropriate chemical resistant gloves.	
<b>- Other</b>	Wear appropriate chemical resistant clothing.	
<b>Respiratory protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.	
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.	
<b>Hygiene measures</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.	
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	

## SECTION 9: Physical and chemical properties

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

#### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-148 °F (-100 °C) estimated
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	113,0 °F (45,0 °C) estimated
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.

<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0,09 hPa estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>9.2. Other information</b>	
<b>Density</b>	0,99 g/cm3 estimated
<b>Percent volatile</b>	2,25 % estimated
<b>Specific gravity</b>	0,99 estimated
<b>VOC</b>	2,25 % estimated

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### 11.1. Information on toxicological effects

**Acute toxicity** Not known.

Components	Species	Test Results
2-hydroxyethyl methacrylate (CAS 868-77-9)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	5050 mg/kg
Isodecyl Acrylate (CAS 1330-61-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	3540 mg/kg
<b>Oral</b>		
LD50	Rat	12 g/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	

<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitization</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	Due to partial or complete lack of data the classification is not possible.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Acrylic Acid (CAS 79-10-7)

3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Product	Species	Test Results
HumiSeal UV20 GEL		
<b>Aquatic</b>		
Fish	LC50	683,7163 mg/l, 96 hours estimated

Components	Species	Test Results
2-hydroxyethyl Acrylate (CAS 818-61-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 4,8 mg/l, 96 hours
2-hydroxyethyl methacrylate (CAS 868-77-9)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 213 - 242 mg/l, 96 hours

**12.2. Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### 12.3. Bioaccumulative potential

**Partition coefficient**

**n-octanol/water (log Kow)**

2-hydroxyethyl Acrylate	-0,21
2-hydroxyethyl methacrylate	0,47
Acrylic Acid	0,35

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE, Isodecyl Acrylate)
<b>14.3. Transport hazard class(es)</b>	
Class	9
Subsidiary risk	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	E
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### RID

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE, Isodecyl Acrylate)
<b>14.3. Transport hazard class(es)</b>	
Class	9
Subsidiary risk	-
Label(s)	9
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### ADN

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE, Isodecyl Acrylate)
<b>14.3. Transport hazard class(es)</b>	
Class	9
Subsidiary risk	-
Label(s)	9
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (ISOBORNYL ACRYLATE, Isodecyl Acrylate)
<b>14.3. Transport hazard class(es)</b>	
Class	9
Subsidiary risk	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>ERG Code</b>	9L
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

### IMDG

<b>14.1. UN number</b>	UN3082
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**14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE, Isodecyl Acrylate), MARINE POLLUTANT

**14.3. Transport hazard class(es)**

**Class** 9

**Subsidiary risk** -

**14.4. Packing group** III

**14.5. Environmental hazards**

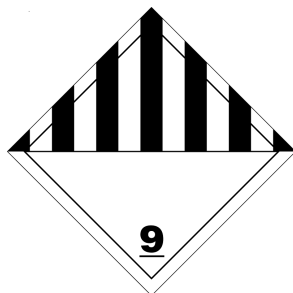
**Marine pollutant** Yes

**EmS** F-A, S-F

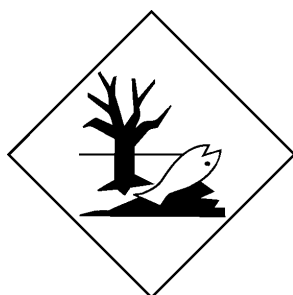
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code** Not established.

**ADN; ADR; IATA; IMDG; RID**



**Marine pollutant**



**General information**

IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

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

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorizations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use**

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

2-hydroxyethyl Acrylate (CAS 818-61-1)

Acrylic Acid (CAS 79-10-7)

ISOBORNYL ACRYLATE (CAS 5888-33-5)

Isodecyl Acrylate (CAS 1330-61-6)

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

#### List of abbreviations

Not available.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R24 Toxic in contact with skin.

R34 Causes burns.

R35 Causes severe burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R40 Limited evidence of a carcinogenic effect.

R43 May cause sensitization by skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

#### Revision information

Product and Company Identification: Product and Company Identification  
Physical & Chemical Properties: Multiple Properties  
GHS: Classification

#### Training information

Follow training instructions when handling this material.

**Disclaimer**

The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for industrial use only. No warranty, expressed or implied is made.