

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 UV20GEL

Registration number -

Synonyms XW16253

Product code MD0000-3849

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

Identified uses Staking and vibration dampening. Industrial use.

Uses advised against No other uses are advised.

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
United States

Division

Telephone 1-866-932-0800

e-mail techsupport@humiseal.com

Contact person Not available.

1.4. Emergency telephone number (+1)703-527-3887 CHEMTREC

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Tox Info Suisse 145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

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. The classification of the substance or mixture has been performed in accordance with ABNT NBR 14725.

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

Health hazards

Acute toxicity, inhalation	Category 3	H331 - Toxic if inhaled.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Respiratory sensitisation	Category 1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.

Carcinogenicity

Category 2

H351 - Suspected of causing cancer.

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 2

H411 - Toxic to aquatic life with long lasting effects.

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

Isobornyl acrylate, 1-Vinyl-2-pyrrolidone, 4,4'-methylenedi(cyclohexyl isocyanate), Amorphous silica, Tosyl isocyanate, Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate, Dimethylbis[(1-oxonodecyl)oxy]stannane

Hazard pictograms**Signal word**

Danger

Hazard statements

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H331 Toxic if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements**Prevention**

P261 Avoid breathing mist/vapours.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

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.
 P310 Immediately call a POISON CENTRE/doctor.
 P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

Not available.

Supplemental label information

11,415 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Isobornyl acrylate	10 - < 20	5888-33-5 227-561-6	01-2119957862-25	607-756-00-6	

Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, STOT SE 3;H335, Aquatic Acute 1;H400, Aquatic Chronic 1;H410

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-Vinyl-2-pyrrolidone	5 - < 10	88-12-0 201-800-4	01-2119498301-39	613-168-00-0	Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Acute Tox. 4;H332;(ATE: 11 mg/l), Eye Dam. 1;H318, Carc. 2;H351, STOT SE 3;H335, STOT RE 2;H373
4,4'-methylenedi(cyclohexyl isocyanate)	5 - < 10	5124-30-1 225-863-2	01-2119457437-31	615-009-00-0	Classification: Acute Tox. 2;H330, Acute Tox. 3;H331;(ATE: 0,5 mg/l), Skin Irrit. 2;H315, Eye Irrit. 2;H319, Resp. Sens. 1;H334, Skin Sens. 1;H317, STOT SE 3;H335 Specific Concentration Limits: Resp. Sens. 1;H334: C ≥ 0.5 %, Skin Sens. 1;H317: C ≥ 0.5 %
Amorphous silica	5 - < 10	112945-52-5 231-545-4	-	-	Classification: -
Tosyl isocyanate	1 - < 3	4083-64-1 223-810-8	01-2119980050-47	615-012-00-7	Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Resp. Sens. 1;H334, STOT SE 3;H335 Supplemental Hazard EUH014 Statement(s): Specific Concentration Limits: Skin Irrit. 2;H315: C ≥ 5 %, STOT SE 3;H335: C ≥ 5 %
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	< 1	84434-11-7 282-810-6	01-2119987994-10	-	Classification: Acute Tox. 4;H312;(ATE: 2000 mg/kg bw), Skin Sens. 1B;H317, Aquatic Chronic 2;H411
Dimethylbis[(1-oxonodecyl)oxy]stannane	< 0,3	68928-76-7 273-028-6	01-2120770324-57	-	Classification: Acute Tox. 4;H302;(ATE: 892 mg/kg bw), Skin Irrit. 2;H315, Skin Sens. 1A;H317, Aquatic Chronic 3;H412

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

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 H-statements is displayed in section 16.

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. 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. Show this safety data sheet to the doctor in attendance. 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. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.
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.
Eye contact	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 immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
For emergency responders	Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	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.
6.3. Methods and material for containment and cleaning up	Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: 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. Put material in suitable, covered, labeled containers.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
---	--

7.2. Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

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

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- H2 ACUTE TOXIC (Lower-tier requirements = 50 tonnes; Upper-tier requirements = 200 tonnes)

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes;

Upper-tier requirements = 500 tonnes)

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value	Form
1-Vinyl-2-pyrrolidone (CAS 88-12-0)	STEL	0,18 mg/m3	Vapour and aerosol.
		0,04 ppm	Vapour and aerosol.
	TWA	0,09 mg/m3	Vapour and aerosol.
		0,02 ppm	Vapour and aerosol.
4,4'-methylenedi(cyclohexyl isocyanate) (CAS 5124-30-1)	STEL	0,02 mg/m3	
	TWA	0,02 mg/m3	
Tosyl isocyanate (CAS 4083-64-1)	STEL	0,02 mg/m3	
	TWA	0,02 mg/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Switzerland SUVA Limit Values at the Workplace: Skin designation

1-Vinyl-2-pyrrolidone (CAS 88-12-0) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls 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. General ventilation normally adequate. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information 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.

Eye/face protection Chemical respirator with organic vapour cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards Not applicable.

Hygiene measures	Observe any medical surveillance requirements. 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.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid. Gel.
Colour	White.
Odour	Mild.
Melting point/freezing point	1710 °C (3110 °F) estimated
Boiling point or initial boiling point and boiling range	218 °C (424,4 °F) estimated
Flammability	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	1,4 % estimated
Explosive limit – upper (%)	10 % estimated
Flash point	94,0 °C (201,2 °F) estimated
Auto-ignition temperature	240 °C (464 °F) estimated
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	1900000 mm ² /s
Kinematic viscosity temperature	23 °C (73,4 °F)
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	0,01 kPa estimated
Density and/or relative density	
Density	1,05 g/cm ³ estimated
Vapour density	Not available.
Particle characteristics	Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics
VOC 0,01 % estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Acids. Alcohols. Amines.
10.6. Hazardous decomposition products	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

Inhalation	Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	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. Permanent eye damage including blindness could result. May cause respiratory irritation. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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

Acute toxicity Toxic if inhaled.

Product	Species	Test Results
---------	---------	--------------

HumiSeal UV20GEL

Acute

Dermal

LD50	Rat	15674 mg/kg
------	-----	-------------

Oral

LD50	Rat	7123 mg/kg
------	-----	------------

Components	Species	Test Results
------------	---------	--------------

1-Vinyl-2-pyrrolidone (CAS 88-12-0)

Acute

Dermal

LD50	Rat	2350 mg/kg
------	-----	------------

Inhalation

Mist

LC50	Rat	3,07 mg/l, 4 hours
------	-----	--------------------

Oral

LD50	Rat	1022 mg/kg
------	-----	------------

4,4'-methylenedi(cyclohexyl isocyanate) (CAS 5124-30-1)

Acute

Dermal

LD50	Rat	> 7000 mg/kg, 24 Hours
------	-----	------------------------

Oral

LD50	Rat	9900 mg/kg
------	-----	------------

Amorphous silica (CAS 112945-52-5)

Acute

Dermal

LD50	Rabbit	> 2000 mg/kg
------	--------	--------------

Oral

LD50	Rat	> 2000 mg/kg
------	-----	--------------

Dimethylbis[(1-oxoneodecyl)oxy]stannane (CAS 68928-76-7)

Acute

Dermal

LD50	Rabbit	> 2000 mg/kg
------	--------	--------------

Oral

LD50	Rat	892 mg/kg
------	-----	-----------

Components	Species	Test Results
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (CAS 84434-11-7)		
Acute		
Dermal		
LD50	Rat	>= 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 5000 mg/kg

Isobornyl acrylate (CAS 5888-33-5)		
Acute		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Oral		
LD50	Rat	4350 mg/kg

Tosyl isocyanate (CAS 4083-64-1)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	2330 mg/kg

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

1-Vinyl-2-pyrrolidone (CAS 88-12-0)	3 Not classifiable as to carcinogenicity to humans.
Amorphous silica (CAS 112945-52-5)	3 Not classifiable as to carcinogenicity to humans.

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

11.2. Information on other hazards

Endocrine disrupting properties	The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
--	--

Other information	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 UV20GEL			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	78,9755 mg/l, 48 hours

Product		Species	Test Results
Fish	LC50	Fish	4,6371 mg/l, 96 hours
Components		Species	Test Results
1-Vinyl-2-pyrrolidone (CAS 88-12-0)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	45 mg/l, 48 hours
4,4'-methylenedi(cyclohexyl isocyanate) (CAS 5124-30-1)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	> 8,3 mg/l, 48 hours
Fish	LC50	Fish	> 8,1 mg/l, 96 hours
Amorphous silica (CAS 112945-52-5)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Fish	> 10000 mg/l, 96 hours
Dimethylbis[(1-oxoneodecyl)oxy]stannane (CAS 68928-76-7)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	39 mg/l, 48 hours
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (CAS 84434-11-7)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	2,26 mg/l, 48 hours
Fish	LC50	Fish	1,89 mg/l, 96 hours
Isobornyl acrylate (CAS 5888-33-5)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Fish	0,704 mg/l, 96 hours
Tosyl isocyanate (CAS 4083-64-1)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hours
Fish	LC50	Fish	> 45 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

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. 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.

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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	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.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	-
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 Kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

RID

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Label(s)	9
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Label(s)	9
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary hazard	-
14.4. Packing group	III
14.5. Environmental hazards	No.
ERG Code	9L

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

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

As per IATA S.P. A197: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net weight per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

IMDG

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)

14.3. Transport hazard class(es)

Class 9

Subsidiary hazard -

14.4. Packing group III

14.5. Environmental hazards

Marine pollutant No.

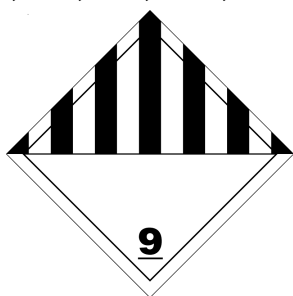
EmS F-A, S-F

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

As per section 2.10.2.7 of IMDG Code: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 Kg or less for solids are not subject to any other provisions of the IMDG Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of the IMDG Code relevant to any additional hazards continue to apply.

14.7. Maritime transport in bulk according to IMO instruments Not established.

ADN; ADR; IATA; IMDG; RID



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 (EU) 2019/1021 On persistent organic pollutants (recast), 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

Amorphous silica (CAS 112945-52-5)

Dimethylbis[(1-oxoneodecyl)oxy]stannane (CAS 68928-76-7)

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

Not listed.

Authorisations

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 - Conditions of restriction given for the associated entry number should be considered

Dimethylbis[(1-oxoneodecyl)oxy]stannane 20
(CAS 68928-76-7)

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other EU regulations

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

ANNEX 1, PART 1 Categories of dangerous substances
Hazard categories in accordance with Regulation (EC) No 1272/2008
- H2 ACUTE TOXIC
- E2 Hazardous to the Aquatic Environment Chronic

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 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

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

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 Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV)

Not listed.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TWA: Time Weighted Average.
vPvB: Very persistent and very bioaccumulative.

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,
which are not written out in full
under sections 2 to 15**

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH014 Reacts violently with water.

Revision information

Product and Company Identification: Product and Company Identification
SECTION 2: Hazards identification: Classification of the substance or mixture
SECTION 2: Hazards identification: Prevention
SECTION 2: Hazards identification: Response
SECTION 4: First aid measures: Skin contact
SECTION 11: Toxicological information: Skin contact
SECTION 13: Disposal considerations: Residual waste
SECTION 15: Regulatory information: 15.2. Chemical safety assessment
SECTION 16: Other information: References

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.