

# SAFETY DATA SHEET

Adhesive UV cured low-shrink, white 10mL

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

### 1.1 Product identifier

**Product name** : Adhesive UV cured low-shrink, white 10mL  
**Part no.** : M7300-68002

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

**Identified uses** : Reagents and Standards for Analytical Chemistry Laboratory Use  
 Adhesive.  
 10 ml  
**Uses advised against** : None known.

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

Agilent Technologies LDA UK Ltd.  
 5500 Lakeside Cheadle Royal Business Park,  
 Cheadle, Cheshire, SK8 3GR  
 United Kingdom  
 Tel: +44 (0) 345 712 5292  
**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +44 20 3807 3798

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

H302	ACUTE TOXICITY (oral)	Category 4
H314	SKIN CORROSION/IRRITATION	Category 1B
H317	SKIN SENSITISATION	Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation)	Category 3
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD	Category 3

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

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%  
 Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%  
 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



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## SECTION 2: Hazards identification

- Signal word** : Danger
- Hazard statements** : H302 - Harmful if swallowed.  
 H314 - Causes severe skin burns and eye damage.  
 H317 - May cause an allergic skin reaction.  
 H335 - May cause respiratory irritation.  
 H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements**
- Prevention** : P280 - Wear protective gloves, protective clothing and eye or face protection.
- Response** : P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- Storage** : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients** : N,N-dimethylacrylamide; acrylic acid; Triacrylate ester; Visible Photoinitiator; Silane Coupling Agent and sodium hydroxide
- Supplemental label elements** : Not applicable.
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.
- Special packaging requirements**
- Containers to be fitted with child-resistant fastenings** : Not applicable.
- Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

- Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Other hazards which do not result in classification** : Causes digestive tract burns.

## SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
N,N-dimethylacrylamide	EC: 220-237-5 CAS: 2680-03-7	≤10	Acute Tox. 3, H301 Acute Tox. 3, H311	[1]
acrylic acid	EC: 201-177-9 CAS: 79-10-7 Index: 607-061-00-8	≤3	Eye Dam. 1, H318 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1)	[1] [2]

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### SECTION 3: Composition/information on ingredients

Triacrylate ester	-	≤3	Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317	[1]
Visible Photoinitiator	-	≤3	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[1]
Photoinitiator	-	≤3	Acute Tox. 4, H302 Aquatic Chronic 2, H411	[1]
Silane Coupling Agent sodium hydroxide	- EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	<1 ≤1	Skin Sens. 1, H317 Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [1] [2]
<b>See Section 16 for the full text of the H statements declared above.</b>				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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## SECTION 4: First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

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

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

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

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid release to the environment. Avoid contact with eyes, skin and clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Do not breathe vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

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

### 7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
acrylic acid	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 1 minutes: 59 mg/m <sup>3</sup> . STEL 1 minutes: 20 ppm. TWA 8 hours: 29 mg/m <sup>3</sup> . TWA 8 hours: 10 ppm.
sodium hydroxide	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 2 mg/m <sup>3</sup> .

#### Biological exposure indices

No exposure indices known.

#### Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

Product/ingredient name	Result	
N,N-dimethylacrylamide	DNEL - General population - Long term - Oral 14.7 µg/kg bw/day	
	DNEL - General population - Long term - Inhalation 0.0512 mg/m <sup>3</sup>	
	DNEL - General population - Long term - Dermal 179 µg/kg bw/day	
	DNEL - Workers - Long term - Inhalation 0.207 mg/m <sup>3</sup>	
	DNEL - Workers - Long term - Dermal 357 µg/kg bw/day	
	acrylic acid	DNEL - General population - Short term - Inhalation 3.6 mg/m <sup>3</sup>
		DNEL - General population - Long term - Oral 0.4 mg/kg bw/day
		DNEL - General population - Short term - Oral 1.2 mg/kg bw/day
		DNEL - General population - Short term - Inhalation 3.6 mg/m <sup>3</sup>
		DNEL - General population - Long term - Inhalation 3.6 mg/m <sup>3</sup>
DNEL - General population - Long term - Inhalation 3.6 mg/m <sup>3</sup>		
DNEL - Workers - Short term - Inhalation 30 mg/m <sup>3</sup>		
DNEL - Workers - Long term - Inhalation 30 mg/m <sup>3</sup>		
DNEL - Workers - Short term - Inhalation 30 mg/m <sup>3</sup>		
DNEL - Workers - Long term - Inhalation 30 mg/m <sup>3</sup>		
sodium hydroxide	DNEL - General population - Long term - Inhalation 1 mg/m <sup>3</sup>	
	DNEL - Workers - Long term - Inhalation 1 mg/m <sup>3</sup>	

#### PNECs

Not available.

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## SECTION 8: Exposure controls/personal protection

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

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

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid. [Paste.]

**Colour** : White.

**Odour** : Characteristic.

**Odour threshold** : Not available.

**Melting point/freezing point** : Not available.

**Initial boiling point and boiling range** : Not available.

**Flammability** : Not applicable.

**Lower and upper explosion limit/flammability limit** : Not available.

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## SECTION 9: Physical and chemical properties

Flash point : Closed cup: >100°C

Auto-ignition temperature

Ingredient name	°C	Method
N,N-dimethylacrylamide	352	-
acrylic acid	390	-

Decomposition temperature : Not available.

pH : Not available.

Viscosity : Dynamic (room temperature): 135000 mPa·s  
Kinematic (room temperature): Not available.  
Kinematic (40°C): Not available.

Media	Result
water	Insoluble

Partition coefficient: n-octanol/water : Not applicable.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
acrylic acid	2.85	0.38	-	-	-	-
N,N-dimethylacrylamide	0.49	0.065	-	3.68	0.49	-

Relative density : 1.14

Vapour density : Not available.

### Particle characteristics

Median particle size : Not applicable.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

### 9.2.2 Other safety characteristics

Miscible with water : No.

Evaporation rate : Not available.

Physical/chemical properties comments : Not available.

## SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : May react or be incompatible with oxidising materials.

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**SECTION 10: Stability and reactivity**

Reactive or incompatible with the following materials: acids and alkalis.  
amines  
Oxygen scavengers  
Thiosulfates

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

Acute toxicity

<b>Product/ingredient name</b>	<b>Result</b>	
Acrylic acid	Rat - Oral - LD50	1337 mg/kg

**Conclusion/Summary** : Not available.

[Product]

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Adhesive UV cured low-shrink, white 10mL	1018.7	3058.1	N/A	370.4	N/A
N,N-dimethylacrylamide	100	300	N/A	N/A	N/A
acrylic acid	1337	1100	N/A	11	N/A
Triacrylate ester	N/A	5000	N/A	N/A	N/A
Photoinitiator	500	6929	N/A	N/A	N/A

Skin corrosion/irritation

<b>Product/ingredient name</b>	<b>Result</b>	
Acrylic acid	Rabbit - Skin - Severe irritant	Duration of treatment/ exposure: 24 hours Amount/concentration applied: 5 mg
	Rabbit - Skin - Severe irritant	Amount/concentration applied: 500 mg
sodium hydroxide	Rabbit - Skin - Severe irritant	Duration of treatment/ exposure: 24 hours Amount/concentration applied: 500 mg
	Human - Skin - Severe irritant	Duration of treatment/ exposure: 24 hours Amount/concentration applied: 10 pph

**Conclusion/Summary** : Repeated exposure may cause skin dryness or cracking.

[Product]

Serious eye damage/eye irritation

<b>Product/ingredient name</b>	<b>Result</b>	
N,N-dimethylacrylamide	Rabbit - Eyes - Mild irritant	Amount/concentration applied: 100 uL
acrylic acid	Rabbit - Eyes - Severe irritant	Duration of treatment/ exposure: 24 hours Amount/concentration applied: 250 ug
	Rabbit - Eyes - Severe irritant	Amount/concentration applied: 1 mg
sodium hydroxide	Rabbit - Eyes - Severe irritant	Duration of treatment/ exposure: 24 hours

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Rabbit - Eyes - Severe irritant

Amount/concentration applied: 50 ug

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 1 %

Duration of treatment/exposure: 24 hours

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 1 mg

Duration of treatment/exposure: 0.5 minutes

Amount/concentration applied: 1 mg

**Conclusion/Summary [Product]** : Not available.

Respiratory corrosion/irritation

**Conclusion/Summary [Product]** : Not available.

Respiratory or skin sensitization

**Skin**

**Conclusion/Summary [Product]** : Not available.

**Respiratory**

**Conclusion/Summary [Product]** : Not available.

Germ cell mutagenicity

**Conclusion/Summary [Product]** : Not available.

Carcinogenicity

**Conclusion/Summary [Product]** : Not available.

Reproductive toxicity

**Conclusion/Summary [Product]** : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
acrylic acid	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : May cause respiratory irritation.

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**SECTION 11: Toxicological information**

- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

- Conclusion/Summary [Product]** : Not available.
- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result
<input checked="" type="checkbox"/> N-dimethylacrylamide	Acute - IC50 - Fresh water OECD [Fish, Acute Toxicity Test] Fish >120 mg/l [96 hours]
	Acute - EC50 - Fresh water OECD [Daphnia sp. Acute Immobilization Test and Reproduction Test] Daphnia

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	>120 mg/l [48 hours]		
	Acute - EC50 - Fresh water	-	-
	OECD [Alga, Growth Inhibition Test]		
	Algae		
	>400 mg/l [72 hours]		
acrylic acid	Acute - EC50 - Fresh water	-	-
	EU		
	Algae		
	0.13 mg/l [72 hours]		
	Acute - LC50 - Fresh water	-	-
	EPA		
	Fish		
	27 mg/l [96 hours]		
	Acute - NOEC - Fresh water	-	-
	EPA		
	Fish		
	6.3 mg/l [96 hours]		
	Acute - LC50 - Fresh water	-	-
	EPA		
	Daphnia		
	95 mg/l [48 hours]		
	Chronic - NOEC - Fresh water	-	-
	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate		
	Age: <24 hours		
	3.8 mg/l [21 days]		
	Reproduction		
sodium hydroxide	Acute - LC50 - Fresh water	-	-
	Fish - Western mosquitofish - <i>Gambusia affinis</i> - Adult		
	125 ppm [96 hours]		
	Mortality		
	Acute - EC50 - Fresh water	-	-
	Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate		
	Age: <24 hours		
	40.38 mg/l [48 hours]		
	Intoxication		

**Conclusion/Summary [Product]** : Not available.

**12.2 Persistence and degradability**

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## SECTION 12: Ecological information

**Conclusion/Summary** : Not available.  
**[Product]**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
N,N-dimethylacrylamide	-	-	Not readily
acrylic acid	-	-	Readily
sodium hydroxide	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
N,N-dimethylacrylamide	-0.3	-	Low
acrylic acid	0.38	3.162	Low

### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
N,N-dimethylacrylamide	1.7	49.4005
acrylic acid	0.9	7.90304

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
N,N-dimethylacrylamide	No	N/A	Yes	No	N/A	N/A	Yes
acrylic acid	No	N/A	Yes	No	N/A	N/A	Yes
Triacrylate ester	No	N/A	N/A	No	N/A	N/A	N/A
Visible Photoinitiator	No	N/A	N/A	No	N/A	N/A	N/A
Photoinitiator	No	N/A	N/A	No	N/A	N/A	N/A
Silane Coupling Agent	No	N/A	N/A	No	N/A	N/A	N/A
sodium hydroxide	No	No	No	No	No	No	No

**Mobility** : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

#### Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
N,N-dimethylacrylamide	No	N/A	N/A	No	N/A	N/A	N/A
acrylic acid	No	N/A	No	No	No	N/A	No
Triacrylate ester	No	N/A	N/A	No	N/A	N/A	N/A
Visible Photoinitiator	No	N/A	N/A	No	N/A	N/A	N/A
Photoinitiator	No	N/A	N/A	No	N/A	N/A	N/A
Silane Coupling Agent	No	N/A	N/A	No	N/A	N/A	N/A
sodium hydroxide	No	No	No	No	No	No	No

#### Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
N,N-dimethylacrylamide	No	N/A	N/A	No	N/A	N/A	N/A
acrylic acid	No	N/A	No	No	No	N/A	No
Triacrylate ester	No	N/A	N/A	No	N/A	N/A	N/A
Visible Photoinitiator	No	N/A	N/A	No	N/A	N/A	N/A
Photoinitiator	No	N/A	N/A	No	N/A	N/A	N/A
Silane Coupling Agent	No	N/A	N/A	No	N/A	N/A	N/A
sodium hydroxide	No	No	No	No	No	No	No

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## SECTION 12: Ecological information

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]** : The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### Additional information

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

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## SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments : Not available.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
UK (GB)/REACH

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

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### Ozone depleting substances

Not listed.

#### Prior Informed Consent (PIC)

Not listed.

#### Persistent Organic Pollutants

Not listed.

### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

### EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

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**SECTION 15: Regulatory information**

Inventory list

United States : Not determined.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :  
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = GB CLP-specific Hazard statement  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods  
 IMO = International Maritime Organization  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN = REACH Registration Number  
 SGG = Segregation Group  
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

<input checked="" type="checkbox"/> H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications

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**SECTION 16: Other information**

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Notice to reader

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