

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

### 1.1. Product identifier

**Product name:** Optimax® UV-951509  
**Product code:** Optimax® UV-951509  
**UFI:** FP2T-K6QF-JAAA-9PVF  
**Product form:** Mixture

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

**Use of substance / mixture:** Adhesive  
**1.2.1 Relevant Identified uses:** Adhesive  
**1.2.2 Uses advised against:** For professional/Industrial use only

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

**Company Name:** Novachem Corporation Ltd  
U4 Dunboyne Industrial Estate  
Dunboyne  
Co. Meath  
Ireland  
International Tel: 00353-1-8026554  
technicalsupport@novachem.ie  
UK: 0044 (0) 2081442098  
technicalsupport@novachem-uk.co.uk

### 1.4 Emergency telephone number

**Emergency telephone:** Novachem Corporation Ltd: 00353-1-8026554 (Mon-Fri 08.00-17.00hrs).  
National Poisons Centre, Beaumont Hospital, Beaumont, Dublin 9.  
Ireland. Enquiries Tel: 00353-1-809-2166. 8am-10pm 7 days a week.  
The National Poisons Information Centre is open 24hr for healthcare professionals treating poisoned patients. Tel: 00353-1-809-2566.

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** H332 Harmful if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.  
**Most important adverse effects:** Irritating to eyes, respiratory system and skin.

## 2.2. Label elements

### Label elements under CLP:

#### Hazard statements:

H332 Harmful if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.

#### Signal words:

Danger

#### Hazard pictograms:

GHS07: GHS08: GHS05



#### Precautionary statements:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 If on skin: Wash with plenty of 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.  
P310 Immediately call a poison centre/doctor.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P314 Get medical advice/attention if you feel unwell.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3. Other hazards

Component

Results of PBT and vPvB assessment  
PBT: Not applicable.

vPvB: Not applicable.

### Section 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

#### 3.2. Substances/Preparation:

| Name  | Product Identifier                       | %         | Classification  |
|---|--|-----------|---|
| 1-vinyl-2-pyrrolidone                           | CAS-No.: 88-12-0<br>EC-No.: 201-800-4    | 25-50     | Acute Tox. H302<br>Acute Tox. 4 H312<br>Eye Dam. 1 H318<br>Acute Tox. 4 H33<br>STOT SE 3 H335<br>Carc. 2 H351<br>STOT RE 2 H373           |
| 2-hydroxyethyl acrylate                         | CAS-No.: 818-61-1<br>EC-No.: 212-454-9   | <2.5      | Acute Tox. 3 H311<br>Skin Sens. 1; H317: C ≥<br>0,2 %. Skin Corr. 1B<br>H314 Skin Sens.<br>H317 Aquatic Acute 1<br>H400                   |
| Isobornyl acrylate                              | CAS-No.: 5888-33-5<br>EC-No.: 227-561-6  | 25-50     | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410 |
| Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | CAS-No.: 75980-60-8<br>EC-No.: 278-355-8 | ≥ 1 – < 3 | Skin Sens. 1B, H317<br>Repr. 1B, H360Fd<br>Aquatic Chronic 2,<br>H411   |

### Section 4: First aid measures

#### 4.1. Description of first aid measure

|                      |  |
|----------------------|--|
| <b>Skin contact:</b> | Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation persists, obtain medical attention. |
| <b>Eye contact:</b>  | Bathe the eye with running water for 15 minutes. If irritation persists, consult a doctor.   |
| <b>Ingestion:</b>    | Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor if unwell.                                    |
| <b>Inhalation:</b>   | Remove casualty from exposure ensuring one's own safety whilst doing so.   |

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

|                                   |   |
|-----------------------------------|---|
| <b>Skin contact:</b>              | There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact. |
| <b>Eye contact:</b>               | There may be irritation and redness. The eyes may water profusely.  |
| <b>Ingestion:</b>                 | There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.               |
| <b>Inhalation:</b>                | There may be irritation of the throat with a feeling of tightness in the chest.                             |
| <b>Chronic symptoms:</b>          | May damage fertility. Suspected of damaging the unborn child.   |
| <b>Delayed/immediate effects:</b> | Immediate effects can be expected after short-term exposure.  |

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

#### Section 5: Fire-fighting measures

##### 5.1. Extinguishing media

**Extinguishing media:** Dry chemical powder. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).  
**Unsuitable extinguishing media:** Water jet or water based extinguishing media.

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

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide/carbon monoxide and oxides of nitrogen.

##### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### Section 6: Accidental release measures

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

**Personal precautions:** Refer to Section 8 of SDS for personal protection details. Evacuate the area immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

##### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

#### 6.4. Reference to other sections

**Reference to other sections:** Refer to Section 8 of SDS.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Wear suitable protective gloves.

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

**Storage conditions:** Store in cool, well-ventilated area. Keep container tightly closed. Store away from ignition sources. Protect from light. Storage temperatures should not exceed 25°C.

**Suitable packaging:** Product should be kept in the original container.

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

**Specific end use(s):** Adhesive

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure and biological limit values

##### 88-12-0 1-vinyl-2-pyrrolidone

TLV Long-term value: 0.05 ppm  
A3

#### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.  
**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Nitrile gloves. Viton gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing should be available.

### Section 9: Physical and chemical properties

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

|   |                          |
|---|--------------------------|
| Physical state                                  | Liquid                   |
| Colour  | Clear                    |
| Appearance                                      | Clear liquid             |
| Odour   | Characteristic           |
| Odour threshold                                 | Not available            |
| Melting point                                   | Not available            |
| Freezing point                                  | Not available            |
| Boiling point                                   | Not available            |
| Flammability                                    | Not flammable            |
| Explosive properties                            | Product is not explosive |
| Oxidising properties                            | Not oxidising            |
| Explosive limits                                | Not available            |
| Lower explosive limit (LEL)                     | Not available            |
| Upper explosive limit (UEL)                     | Not available            |
| Flash point                                     | > 97°C                   |
| Auto-ignition temperature                       | Not available            |
| Decomposition temperature                       | Not available            |
| pH  | Not available            |
| Viscosity, kinematic                            | Not available            |
| Viscosity, dynamic                              | Refer to TDS             |
| Solubility                                      | Soluble in acetone.      |
| Partition coefficient n-octanol/water (Log Kow) | Not available            |
| Partition coefficient n-octanol/water (Log Pow) | Not available            |
| Vapour pressure                                 | Not available            |
| Vapour pressure at 50 °C                        | Not available            |
| Density   | Not available            |
| Relative density                                | Not determined           |
| Relative vapour density at 20 °C                | Not available            |
| Particle size                                   | Not applicable           |
| Particle size distribution                      | Not applicable           |
| Particle shape                                  | Not applicable           |
| Particle aspect ratio                           | Not applicable           |
| Particle agglomeration state                    | Not applicable           |
| Particle specific surface area                  | Not applicable           |
| Particle dustiness                              | Not applicable           |

## 9.2. Other information

**9.2.1. Physical hazard classes** No data available.

**9.2.2. Other safety characteristics** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

## 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

## 10.4. Conditions to avoid

**Conditions to avoid:** Protect from light

## 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents, light

## 10.6. Hazardous decomposition products

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

## 11. Toxicological information

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

88-12-0 1-vinyl-2-pyrrolidone      Oral LD50 1,470 mg/kg (rat)  
Dermal LD50 560 mg/kg (rabbit)  
Inhalative LC50/4 h 3.2 mg/l (rat)

### 11.2. Information on other hazards

No data available

## Section 12: Ecological information

### 12.1. Toxicity

Ecology - general      Aquatic Acute 1. Aquatic Chronic 2.  
Ecology - water      Slightly soluble .  
Hazardous to the aquatic      Toxic to aquatic life.  
environment, short-term (acute)  
Hazardous to the aquatic      Toxic to aquatic life with long lasting effects.  
environment, long-term (chronic)

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available

### 12.4. Mobility in soil

**Mobility:** Adsorbs into the soil.

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

**Other adverse effects:** No other effects known

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Dispose of as Special Waste in accordance with local and national legislation. Hardened product can be disposed of in land-fill sites by licensed contractors.

**Waste code number:** 08 04 09

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1 UN number or ID number:

**UN Number:**

| ADR    | IMDG   | IATA   | ADN    | RID    |
|--------|--------|--------|--------|--------|
| UN3082 | UN3082 | UN3082 | UN3082 | UN3082 |

### 14.2 UN proper shipping name:

| ADR  | IMDG   | IATA   | ADN  | RID  |
|--|--|--|--|--|
| ENVIRONMENT<br>ALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENT<br>ALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENT<br>ALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENT<br>ALLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENTA<br>LLY<br>HAZARDOUS<br>SUBSTANCE,<br>LIQUID, N.O.S. |



|   |   |                      |   |  |
|---|---|----------------------|---|--|
| (Isobornyl acrylate, 2-hydroxyethyl acrylate),<br>MARINE<br>POLLUTANT | (Isobornyl acrylate, 2-hydroxyethyl acrylate),<br>MARINE<br>POLLUTANT | (Isobornyl acrylate) | (Isobornyl acrylate, 2-hydroxyethyl acrylate),<br>MARINE<br>POLLUTANT | (Isobornyl acrylate, 2-hydroxyethyl acrylate), MARINE<br>POLLUTANT |
|---|---|----------------------|---|--|

#### 14.3 Transport hazard class:

##### Transport Hazard Class:

|          |           |           |          |          |
|----------|-----------|-----------|----------|----------|
| ADR<br>9 | IMDG<br>9 | IATA<br>9 | ADN<br>9 | RID<br>9 |
|          |           |           |          |          |

#### 14.4 Packing Group:

##### Packing Group:

|            |             |             |            |            |
|------------|-------------|-------------|------------|------------|
| ADR<br>III | IMDG<br>III | IATA<br>III | ADN<br>III | RID<br>III |
|------------|-------------|-------------|------------|------------|

#### 14.5 Environmental hazards:

|   |   |  |   |   |
|---|---|--|---|---|
| ADR<br>Dangerous for the environment: Yes | IMDG<br>Dangerous for the environment: Yes<br>Marine pollutant: Yes | IATA<br>Dangerous for the environment: Yes | ADN<br>Dangerous for the environment: Yes | RID<br>Dangerous for the environment: Yes |
|---|---|--|---|---|

#### 14.6 Special precautions for users:

EMS Number: F-A,S-F  
Stowage Category A  
Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code - Not applicable.

#### Section 14.7: Maritime transport in bulk according to IMO instruments

Not applicable

#### Section 15: Regulatory information

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

### 15.1.1 EU Regulations

|                    |   |
|--------------------|---|
| <b>Section 313</b> | Specific toxic chemical listings: None of the ingredients listed  |
| <b>Section 315</b> | Extremely hazardous substances: None of the ingredients listed  |
| <b>TSCA</b>        | 88-12-0 1-vinyl-2-pyrrolidone ACTIVE<br>5888-33-5 Isobornyl acrylate ACTIVE<br>818-61-1 2-hydroxyethyl acrylate ACTIVE<br>75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide<br>ACTIVE |

### 15.1.2 National Regulations

No information available

### 15.2. Chemical Safety Assessment

|                                    |  |
|------------------------------------|--|
| <b>Chemical safety assessment:</b> | No chemical safety assessment has been carried out for the substance or the mixture by the supplier. |
|------------------------------------|--|

### Section 16: Other information

|                                   |   |
|-----------------------------------|---|
| <b>Other information:</b>         | This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.  |
| <b>Indication of changes:</b>     | Indicated by revision number.   |
| <b>Phrases used in S.2 and 3:</b> | H332 Harmful if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.<br>P201 Obtain special instructions before use.<br>P202 Do not handle until all safety precautions have been read and understood.<br>P260 Do not breathe dust/fume/gas/mist/vapors/spray.<br>P264 Wash thoroughly after handling.<br>P271 Use only outdoors or in a well-ventilated area.<br>P272 Contaminated work clothing must not be allowed out of the workplace.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.<br>P302+P352 If on skin: Wash with plenty of water.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P310 Immediately call a poison center/doctor.<br>P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P321 Specific treatment (see on this label).<br>P314 Get medical advice/attention if you feel unwell.<br>P362+P364 Take off contaminated clothing and wash it before reuse. |

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Legal disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Novachem Corporation Ltd. and/or its agents cannot accept any liability for the use of information contained in this data sheet or for the use, application or processing of the product described in this data sheet. Users should note the possibility of hazards occurring due to improper uses of the product.