

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - **United Kingdom (UK)**

# SAFETY DATA SHEET

## P2V LIGHT MAGENTA

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

#### 1.1 Product identifier

**Product no.** : 1320248  
**Product name** : P2V LIGHT MAGENTA

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

**Identified uses:** Printing inks, coatings, toners, and related materials

**Uses advised against:** Not Available

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

INX International Ink Co.  
150 N Martingale Rd, Suite 700  
Schaumburg  
Illinois  
60173  
United States  
**e-mail address of person responsible for this SDS** : MSDS@inxintl.com

#### 1.4 Emergency telephone number

**24 Hour Emergency Phone** : 800.535.5053 INFOTRAC 24 Hour Spill and Emergency (+1 352 323 3500 outside of North America)

#### National advisory body/Poison Center

**Telephone number** : Not available.  
**Hours of operation** : Not available.  
**Information limitations** : Not available.

### 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]

Skin Corr./Irrit. 2, H315  
Eye Dam./Irrit. 2, H319  
Skin Sens. 1, H317

Repr. 2, H361f (Fertility)  
Repr. 2, H361d (Unborn child)  
STOT SE 3, H335  
STOT RE 2, H373  
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown ecotoxicity** : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 49 %

### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Xi, R36/37/38  
R43  
R52/53

**Physical/chemical hazards** : Not applicable.


**Human health hazards** : Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

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

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

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

## 2.2 Label elements

**Hazard pictograms** : 

**Signal word** : Warning

**Hazard statements** : Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Suspected of damaging fertility. Suspected of damaging the unborn child.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life with long lasting effects.

### Precautionary statements


**General** : Read label before use.

**Prevention** : Obtain special instructions before use. Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Do not breathe vapor.

**Response** : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

|   |   |  |
|---|---|--|
| <b>Hazard symbol or symbols</b>   | : |   |
| <b>Indication of danger</b>   | : | Irritant   |
| <b>Risk phrases</b>   | : | R36/37/38 - Irritating to eyes, respiratory system and skin.<br>R43 - May cause sensitization by skin contact.<br>R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| <b>Safety phrases</b>   | : | S2 - Keep out of the reach of children.<br>S24 - Avoid contact with skin.<br>S37 - Wear suitable gloves.<br>S46 - If swallowed, seek medical advice immediately and show this container or label.                        |
| <b>Hazardous ingredients</b>  | : | hexamethylene diacrylate<br>exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate<br>1-vinylhexahydro-2H-azepin-2-one<br>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide   |
| <b>Supplemental label elements</b>  | : | Not applicable.  |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | : | Not applicable.  |
| <b><u>Special packaging requirements</u></b>  |   |  |
| <b>Containers to be fitted with child-resistant fastenings</b>  | : | Not applicable.  |
| <b>Tactile warning of danger</b>  | : | Yes, applicable.   |

### 2.3 Other hazards

|   |   |                 |
|---|---|-----------------|
| <b>Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII</b>  | : | Not applicable. |
| <b>Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b> | : | Not applicable. |
| <b>Other hazards which do not result in classification</b>  | : | None known.     |

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

|                       |   |                |
|-----------------------|---|----------------|
| <b>3.1 Substances</b> | : | Not applicable |
| <b>3.2 Mixtures</b>   | : | Mixture        |

| Product/ingredient name   | Identifiers                               | %            | Classification             |   | Type   |
|---|---|--------------|----------------------------|---|--------|
|   |   |              | 67/548/EEC                 | Regulation (EC) No. 1272/2008 [CLP]   |        |
| hexamethylene diacrylate  | EC:235-921-9<br>Index:607-109-00-8        | >=25 - <35   | R43<br>Xi; R36/38          | Skin Corr./Irrit. 2, H315<br>Eye Dam./Irrit. 2, H319<br>Skin Sens. 1, H317  | [1][2] |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate   | EC:227-561-6<br>Index:                    | >=20 - <25   | Xi; R36/37/38 N;<br>R51/53 | Skin Corr./Irrit. 2, H315<br>Eye Dam./Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Chronic 2, H411                                | [1]    |
| 2-phenoxyethyl acrylate   | EC:256-360-6<br>Index:                    | >=15 - <20   | Xi; R36/38 R43             | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   | [1]    |
| Amine Modified Acrylate Oligomer  | EC:<br>Index:                             | >=12.5 - <15 | Xi; R36/38                 | Skin Corr./Irrit. 2, H315<br>Eye Dam./Irrit. 2, H319  | [1]    |
| 1-vinylhexahydro-2H-azepin-2-one  | EC:218-787-6<br>CAS : 2235-00-9<br>Index: | >=7 - <10    | Xn; R21/22 R36             | Acute Tox. 4, H302 (oral)<br>Acute Tox. 4, H312 (dermal)<br>Eye Dam./Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT RE 1, H372 (liver, respiratory tract) | [1]    |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide   | EC:278-355-8<br>Index:                    | >=3 - <5     | Not classified.            | Repr. 2, H361f<br>Repr. 2, H361d<br>Aquatic Chronic 3, H412   | [1]    |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-(2,2-dimethyl-1,3-propanediyl)bis[.omega.-[(1-oxo-2-propenyl)oxy]- | EC:617-546-6<br>Index:                    | >=1 - <2     | R43<br>Xi; R36/38          | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   | [1]    |
| benzophenone  | EC:204-337-6<br>CAS : 119-61-9<br>Index:  | >=0.2 - <1   | N; R51/53                  | Skin Corr./Irrit. 2, H315<br>Eye Dam./Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  | [1][2] |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.'"-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-  | EC:500-114-5<br>Index:                    | >=0.2 - <1   | Not classified.            | Eye Dam./Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400  | [1]    |

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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

There are no additional ingredients present which, within the current know applicable, are classified as hazardous to health or the environment and

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

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

- Eye contact** : 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. Get medical attention.
- Inhalation** : 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 occur personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. 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.
- 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**

#### **Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following

- Skin contact** : exposure.  
**Ingestion** : Causes skin irritation. May cause an allergic skin reaction.  
: Irritating to mouth, throat and stomach.

#### **Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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 toxic 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 thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide

carbon monoxide  
nitrogen oxides  
phosphorus oxides

### 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 operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves basic level of protection for chemical incidents.
- Additional information** : Not available.

## **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 spilled material. Avoid breathing vapor 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 materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled 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. Collect spillage.

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

- Small spill** : 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.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

- 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

The information in this section contains generic advice and guidance. The for any available use-specific information provided in the Exposure Scena

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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

- : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Seveso II Directive - Reporting thresholds

#### Danger criteria

| Category   | Notification and MAPP threshold | Safety report threshold |
|--|---------------------------------|-------------------------|
| E2: Hazardous to the aquatic environment - Chronic 2 | 200 kg                          | 500 kg                  |

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

### 8.1 Control parameters

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**Occupational exposure limits**

| <b>Product/ingredient name</b> | <b>Exposure limit values</b>   |
|--------------------------------|--|
| hexamethylene diacrylate       | <b>AIHA WEEL (1999-01-01)</b> Notes: AIHA dermal sensitization<br>Time Weighted Average (TWA) 1 mg/m <sup>3</sup><br><b>MAK-Werte Liste (2002-07-01)</b> Notes: Danger of sensitization of the skin See Section IV: Sensitizing substances |
| benzophenone                   | <b>AIHA WEEL (2003-01-01)</b> Time Weighted Average (TWA) 0.5 mg/m <sup>3</sup><br><b>NIOSH REL (2005-09-30)</b>   |

**Recommended monitoring procedures**

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard 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.

**DNEL/DMEL Summary** : Not available.

**PNEC Summary** : Not available.

**8.2 Exposure controls**

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process e controls to keep worker exposure to airborne contaminants below any recom

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, 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 r 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.

**Skin protection**

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check durability 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 one approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with what is necessary. Respirator selection must be based on known or anticipated exposure levels of the selected respirator.
- 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

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : liquid
- Color** : Pink
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : 100 °C
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : **Lower:** Not available.  
**Upper:** Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 1.01
- Solubility(ies)** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : **Dynamic:** Not available.  
**Kinematic:** Not available.

**Explosive properties** : Not available.  
**Oxidizing properties** : Not available.

**9.2 Other information**

**Volatile.** : 0.62 %(m) Weight %  
 0.63 %(V) Volume %  
**VOC %** : 0.02 %(m) Weight %  
 0.03 %(V) Volume %  
**Coating VOC** : 0 lb/gal  
 0 g/l

**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** : No specific data.  
**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**

| Product/ingredient name          | Result      | Species | Dose          | Exposure |
|----------------------------------|-------------|---------|---------------|----------|
| Diacylate Monomer                |             |         |               |          |
|                                  | LD50 Oral   | Rat     | 5,000 mg/kg   | -        |
| Multi-functional Monomer         |             |         |               |          |
|                                  | LD50 Oral   | Rat     | 4,890 mg/kg   | -        |
|                                  | LD50 Dermal | Rabbit  | > 5,000 mg/kg | -        |
| Monofunctional Monomer           |             |         |               |          |
| Amine Modified Acrylate Oligomer |             |         |               |          |
| 1-Vinylhexahydro-2H-azepin-2-one |             |         |               |          |
| Photoinitiator                   |             |         |               |          |
|                                  | LD50 Oral   | Rat     | 5,000 mg/kg   | -        |
| Diacylate Oligomer               |             |         |               |          |
| Benzophenone                     |             |         |               |          |
|                                  | LD50 Oral   | Rat     | 10,000 mg/kg  | -        |
|                                  | LD50 Dermal | Rabbit  | 3,535 mg/kg   | -        |
| Triacylate Monomer               |             |         |               |          |

**Conclusion/Summary** : Not available.

### Acute toxicity estimates

Not available.

### Irritation/Corrosion

#### Conclusion/Summary

**Skin** : Not available.  
**Eyes** : Not available.  
**Respiratory** : Not available.

### Sensitization

#### Conclusion/Summary

**Skin** : Not available.  
**Respiratory** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

| Product/ingredient name                             | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | Category 3 |                   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name          | Category | Route of exposure | Target organs |
|----------------------------------|----------|-------------------|---------------|
| 1-vinylhexahydro-2H-azepin-2-one |          |                   |               |

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

- following exposure.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : Irritating to mouth, throat and stomach.

**Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Delayed and immediate effects and also 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** : Not available.
- General** : May cause damage to organs through prolonged or repeated exposure. 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.  
**Teratogenicity** : Suspected of damaging the unborn child.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : Suspected of damaging fertility.

**SECTION 12: Ecological information**

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| benzophenone            |        | -   | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (KOC)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : P: Not available.  
B: Not available.  
T: Not available.

**vPvB** : vP: Not available.  
vB: Not available.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The for any available use-specific information provided in the Exposure Scena

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all time protection and waste disposal legislation and any regional local authorit Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compli 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 minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| Regulatory information    | Proper shipping name  | UN - Number | Hazard classification | Packing group | Additional information |
|---------------------------|---|-------------|-----------------------|---------------|------------------------|
| ADN                       | Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates) | UN3082      | 9                     | III           |                        |
| ADR                       | Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates) | UN3082      | 9                     | III           |                        |
| IATA                      | Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates) | UN3082      | 9                     | III           |                        |
| IMDG                      | Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates) | UN3082      | 9                     | III           |                        |
| DOT (U.S.A.) (Pictograms) | Not Restricted.   |             |                       | -             |                        |
| Mexico Classification     | Not Restricted.   |             |                       | -             |                        |
| TDG Class                 | Not Restricted.   |             |                       | -             |                        |

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization**

**Annex XIV:** None of the components are listed.

**Substances of very high concern:**

**Other EU regulations**

**Europe inventory** : Not determined.  
**Integrated pollution prevention and control list (IPPC) - Air** : Not listed  
**Integrated pollution prevention and control list (IPPC) - Water** : Not listed

**Aerosol dispensers** : Not applicable.

### Seveso II Directive

This product is controlled under the Seveso II Directive.

#### Danger criteria

|  |
|--|
| <b>Category</b>                                      |
| E2: Hazardous to the aquatic environment - Chronic 2 |

### National regulations

**References** : GHS classifications, symbols, and statements valid; legacy characterisations for conditional use only

### International regulations

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 DMEL = Derived Minimal Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

**Key literature references and sources for data** : GHS classifications, symbols, and statements valid; legacy characterisations for conditional use only

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| <b>Classification</b>         | <b>Justification</b> |
|-------------------------------|----------------------|
| Skin Corr./Irrit. 2, H315     | Calculation method   |
| Eye Dam./Irrit. 2, H319       | Calculation method   |
| Skin Sens. 1, H317            | Calculation method   |
| Repr. 2, H361f (Fertility)    | Calculation method   |
| Repr. 2, H361d (Unborn child) | Calculation method   |
| STOT SE 3, H335               | Calculation method   |
| STOT RE 2, H373               | Calculation method   |
| Aquatic Chronic 2, H411       | Calculation method   |



**Full text of abbreviated H statements** :

|   |  |
|---|--|
| <b>H302 (oral)</b>                      | Harmful if swallowed.  |
| <b>H312 (dermal)</b>                    | Harmful in contact with skin.  |
| <b>H400</b>                             | Very toxic to aquatic life.  |
| <b>H410</b>                             | Very toxic to aquatic life with long lasting effects.                    |
| <b>H411</b>                             | Toxic to aquatic life with long lasting effects.                         |
| <b>H412</b>                             | Harmful to aquatic life with long lasting effects.                       |
| <b>H351</b>                             | Suspected of causing cancer.   |
| <b>H319</b>                             | Causes serious eye irritation.   |
| <b>H361fd (Fertility, Unborn child)</b> | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| <b>H315</b>                             | Causes skin irritation.  |
| <b>H317</b>                             | May cause an allergic skin reaction.                                     |
| <b>H372</b>                             | Causes damage to organs through prolonged or repeated exposure.          |
| <b>H373</b>                             | May cause damage to organs through prolonged or repeated exposure.       |
| <b>H335</b>                             | May cause respiratory irritation.  |

**Full text of classifications [CLP/GHS]** :

|  |   |
|--|---|
| <b>Acute Tox. 4, H302</b>                        | ACUTE TOXICITY (oral) - Category 4                              |
| <b>Acute Tox. 4, H312</b>                        | ACUTE TOXICITY (dermal) - Category 4                            |
| <b>Aquatic Acute 1, H400</b>                     | AQUATIC HAZARD (ACUTE) - Category 1                             |
| <b>Aquatic Chronic 1, H410</b>                   | AQUATIC HAZARD (LONG-TERM) - Category 1                         |
| <b>Aquatic Chronic 2, H411</b>                   | AQUATIC HAZARD (LONG-TERM) - Category 2                         |
| <b>Aquatic Chronic 3, H412</b>                   | AQUATIC HAZARD (LONG-TERM) - Category 3                         |
| <b>Carc. 2, H351</b>                             | CARCINOGENICITY - Category 2                                    |
| <b>Eye Dam./Irrit. 2, H319</b>                   | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2                 |
| <b>Repr. 2, H361fd (Fertility, Unborn child)</b> | TOXIC TO REPRODUCTION (Fertility, Unborn child) - Category 2    |
| <b>Skin Corr./Irrit. 2, H315</b>                 | SKIN CORROSION/IRRITATION - Category 2                          |
| <b>Skin Sens. 1, H317</b>                        | SKIN SENSITIZATION - Category 1                                 |
| <b>STOT RE 1, H372</b>                           | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |

|                        |   |
|------------------------|---|
| <b>STOT RE 2, H373</b> | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| <b>STOT SE 3, H335</b> | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3   |

**Full text of abbreviated R phrases** : R21/22- Harmful in contact with skin and if swallowed.  
R36- Irritating to eyes.  
R36/38- Irritating to eyes and skin.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R43- May cause sensitization by skin contact.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications [DSD/DPD]** : Xn - Harmful  
Xi - Irritant  
N - Dangerous for the environment.

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**Notice to reader**

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