

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 CYAN

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

#### 1.1 Product identifier

**Product no.** : 1320545  
**Product name** : P2V LIGHT CYAN

#### 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: 49.5 %

### 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. R43 - May cause sensitization by skin contact. 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. S24 - Avoid contact with skin. S37 - Wear suitable gloves. S46 - If swallowed, seek medical advice immediately and show this container or label.
<b>Hazardous ingredients</b>	:	hexamethylene diacrylate exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate 1-vinylhexahydro-2H-azepin-2-one 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 Index:607-109-00-8	>=25 - <35	R43 Xi; R36/38	Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 2, H319 Skin Sens. 1, H317	[1][2]
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	EC:227-561-6 Index:	>=20 - <25	Xi; R36/37/38 N; R51/53	Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411	[1]
2-phenoxyethyl acrylate	EC:256-360-6 Index:	>=15 - <20	Xi; R36/38 R43	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Amine Modified Acrylate Oligomer	EC: Index:	>=12.5 - <15	Xi; R36/38	Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 2, H319	[1]
1-vinylhexahydro-2H-azepin-2-one	EC:218-787-6 CAS : 2235-00-9 Index:	>=7 - <10	Xn; R21/22 R36	Acute Tox. 4, H302 (oral) Acute Tox. 4, H312 (dermal) Eye Dam./Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 (liver, respiratory tract)	[1]
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	EC:278-355-8 Index:	>=3 - <5	Not classified.	Repr. 2, H361f Repr. 2, H361d 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 Index:	>=1 - <2	R43 Xi; R36/38	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
benzophenone	EC:204-337-6 CAS : 119-61-9 Index:	>=0.2 - <1	N; R51/53	Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 2, H319 Aquatic Acute 1, H400 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 Index:	>=0.2 - <1	Not classified.	Eye Dam./Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-), compound with dodecylamine (1:1)	EC:277-475-8 CAS : 73455-75-1 Index:	>=0.1 - <0.2	Not classified.	Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[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 knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**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 occurs, provide artificial respiration or oxygen by trained 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 exposure.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : 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 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 European standard EN 469 will provide a 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 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 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. 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

**Large spill** : disposal contractor.  
: 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. sand, earth, vermiculite or diatomaceous earth and place 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 list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### **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 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

### **Seveso II Directive - Reporting thresholds** **Danger criteria**

*Version:* 2.12

*Date of issue/Date of revision:* 08.06.2015

*Date of previous issue:* 26.02.2015



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

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
hexamethylene diacrylate	<b>AIHA WEEL (1999-01-01)</b> Notes: AIHA dermal sensitization Time Weighted Average (TWA) 1 mg/m <sup>3</sup> <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> <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 enclosures, local exhaust

Version: 2.12

Date of issue/Date of revision: 08.06.2015

Date of previous issue: 26.02.2015

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.

### **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** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits 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**

*Version:* 2.12

*Date of issue/Date of revision:* 08.06.2015

*Date of previous issue:* 26.02.2015

<b>Physical state</b>	: liquid
<b>Color</b>	: Light blue-green.
<b>Odor</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point/freezing point</b>	: Not available.
<b>Initial boiling point and boiling range</b>	: Not available.
<b>Flash point</b>	: 100 °C Not Measured. Material is not expected to flash.
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Upper/lower flammability or explosive limits</b>	: <b>Lower:</b> Not available. <b>Upper:</b> Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: 1.01
<b>Solubility(ies)</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: <b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.
<b>Explosive properties</b>	: Not available.
<b>Oxidizing properties</b>	: Not available.

## 9.2 Other information

<b>Volatile.</b>	: 0.84 %(m) Weight % 0.85 %(V) Volume %
<b>VOC %</b>	: 0.02 %(m) Weight % 0.03 %(V) Volume %
<b>Coating VOC</b>	: 0 lb/gal 0 g/l

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: No specific data.
<b>10.5 Incompatible materials</b>	: No specific data.
<b>10.6 Hazardous decomposition products</b>	: 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
Diacrylate 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	-
Diacrylate Oligomer				
Benzophenone				
	LD50 Oral	Rat	10,000 mg/kg	-
	LD50 Dermal	Rabbit	3,535 mg/kg	-
Triacrylate Monomer				
Cuprate(1-), [29H,31H-phthalocyanine-C-sulfonato(3-)-N29,N30,N31,N32]-, hydrogen, compd. with 1-dodecanamine (1:1)				

**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**

Version: 2.12

Date of issue/Date of revision: 08.06.2015

Date of previous issue: 26.02.2015

### 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 list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 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 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. 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 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
TDG Class	Not Restricted.			-	
Mexico Classification	Not Restricted.			-	
DOT (U.S.A.) (Pictograms)	Not Restricted.			-	
IMDG	Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates)	UN3082	9	III	

IATA	Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates)	UN3082	9	III	
ADR	Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates)	UN3082	9	III	
ADN	Environmentally Hazardous Substance, Liquid, n.o.s. (Acrylates)	UN3082	9	III	

## 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. 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

##### Category

E2: Hazardous to the aquatic environment - Chronic 2

#### National regulations

References : - Guide de la loi et du règlement sur le transport des marchandises dangereuses au Canada. Centre de conformité international Ltée. 1986.

#### 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** : - Guide de la loi et du règlement sur le transport des marchandises dangereuses au Canada. Centre de conformité international Ltée. 1986.

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

Classification	Justification
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

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

	exposure.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H335</b>	May cause respiratory irritation.
<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.

**Date of printing**

: 09.06.2015

**Date of issue/ Date of revision**

: 08.06.2015

*Version:* 2.12

*Date of issue/Date of revision:* 08.06.2015

*Date of previous issue:* 26.02.2015

**Date of previous issue** : 26.02.2015  
**Version** : 2.12

**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**