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## **SAFETY DATA SHEET**

### **UV RTR LO BLACK INK**

MSDS1016K-EN  
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#### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

##### **Product information**

Product name: UV RTR LO Black Ink  
Product code: JETI UV RTR LO - K  
Use: Digital printing ink  
Company: Gandi Innovations  
941 Isom Rd, San Antonio, TX 78216, USA  
  
Telephone: 210-344-9566  
Telefax: 210-344-9569  
Web: [www.gandininnovations.com](http://www.gandininnovations.com)  
E-mail: [info@jetiprinters.com](mailto:info@jetiprinters.com)  
  
Emergency Telephone (North America): 800-424-9300  
Emergency Telephone (International): +1 703 527 3887

#### **2. HAZARDS IDENTIFICATION**

Physical state: Liquid  
Color: Black  
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Emergency overview: **WARNING!**  
Irritating to eyes and skin. May cause sensitization by skin contact. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Wash thoroughly after handling..

##### Potential acute health effects

Eyes: Irritating to eyes.  
Skin: Irritating to skin. May cause sensitization by skin contact.

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Inhalation: Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Harmful if swallowed.

Carcinogenic effects: No known significant effects or critical hazards.

Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity / Reproductive toxicity: No known significant effects or critical hazards.

Medical conditions aggravated by overexposure: Pre-existing skin and digestive disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**See toxicological information (section 11).**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name</u>	<u>CAS Number</u>	<u>%</u>
Multifunctional acrylates		>70
Bis acryl phosphine oxide	162881-26-7	5-10
Tridecyl acrylate	3076-04-8	2.5-5
1-hydroxycyclohexyl phenyl	947-19-3	1-2.5

### 4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing 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.

Inhalation: Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at

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rest. 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 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.

Ingestion:

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

#### 5. FIRE-FIGHTING MEASURES

Flammability of the product:

In a fire or if heated, a pressure increase will occur and the container may burst.

Products of combustion:

Decomposition products may include the following materials:  
carbon oxides  
phosphorus oxides

#### Extinguishing media

Suitable:

Use an extinguishing agent suitable for the surrounding fire.

Not suitable:

None known.

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Special exposure hazards: 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.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: 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 (see section 8).

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).

Methods for cleaning up: 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 (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### **7. HANDLING AND STORAGE**

Handling: Put on appropriate personal protective equipment (see section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe

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vapor or mist. Do not ingest. 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.

**Storage:**

Store between the following temperatures: 5 - 35°C. 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. 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.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Consult local authorities for acceptable exposure limits.**

**Engineering measures:**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protection**

**Eyes:**

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.

**Skin:**

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.

**Respiratory:**

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.

**Hands:**

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.

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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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid  
Color: Black  
Flash point: Closed cup: >93.3°C (>199.9°F)  
Solubility: Insoluble in the following materials: cold water and hot water

### 10. STABILITY AND REACTIVITY

Stability and reactivity: The product is stable.  
Hazardous reactions: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Tridecyl acrylate	LD50 Dermal	Rabbit	6300 uL/kg	-
	LD50 Oral	Rat	44700 uL/kg	-

Conclusion/Summary : No known significant effects or critical hazards.

#### **Chronic toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

#### **Carcinogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

#### **Mutagenicity**

Conclusion/Summary: No known significant effects or critical hazards.

#### **Teratogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

#### **Reproductive toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

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#### 12. ECOLOGICAL INFORMATION

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

Products of degradation: Products of degradation: carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.), phosphates.

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

**The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

#### 14. TRANSPORT INFORMATION

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

#### 15. REGULATORY INFORMATION

HCS Classification: Irritating material  
Sensitizing material  
Target organ effects

TSCA 8(b) inventory: Listed

U.S. Federal regulations  
TSCA 4(a) final test rules: 4-Methoxyphenol  
TSCA 8(a) PAIR: 4-Methoxyphenol

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**United States inventory (TSCA 8b):** All components are listed or exempted.  
TSCA 12(b) one-time export: 4-Methoxyphenol  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** tridecyl acrylate; C. I. Pigment Black 7  
**SARA 311/312 MSDS distribution – chemical inventory - hazard identification:**  
tridecyl acrylate: Immediate (acute) health hazard; C. I. Pigment Black 7: Immediate (acute) health hazard, Delayed (chronic) health hazard  
C. I. Pigment Blue 15  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

#### State regulations

Connecticut Carcinogen Reporting: None of the components are listed.  
Connecticut Hazardous Material Survey: None of the components are listed.  
Florida substances: None of the components are listed.  
Illinois Chemical Safety Act: None of the components are listed.  
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.  
Louisiana Reporting: None of the components are listed.  
Louisiana Spill: None of the components are listed.  
Massachusetts Spill: None of the components are listed.  
Massachusetts Substances: The following components are listed: CARBON BLACK  
Michigan Critical Material: None of the components are listed.  
Minnesota Hazardous Substances: None of the components are listed.  
New Jersey Hazardous Substances: The following components are listed: CARBON BLACK  
New Jersey Spill: None of the components are listed.  
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.  
New York Acutely Hazardous Substances: None of the components are listed.  
New York Toxic Chemical Release Reporting: None of the components are listed.  
Pennsylvania RTK Hazardous Substances: The following components are listed: CARBON BLACK  
Rhode Island Hazardous Substances: None of the components are listed.

#### International lists

International lists:  
Australia inventory (AICS): At least one component is not listed.  
China inventory (IECSC): At least one component is not listed.  
Korea inventory (KECI): At least one component is not listed.  
Philippines inventory (PICCS): At least one component is not listed.  
Japan inventory (ENCS): At least one component is not listed.  
Canada inventory: At least one component is not listed.  
Europe inventory: At least one component is not listed.  
New Zealand Inventory (HASNO): Not listed.

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### 16. OTHER INFORMATION

Label requirements:

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.):

Health	2
Fire Hazard	1
Reactivity	2

National Fire Protection Association (U.S.A.):



### 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.

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

#### Product information

Product name: UV RTR LO Cyan Ink  
Product code: JETI UV RTR LO - C  
Use: Digital printing ink  
Company: Gandi Innovations  
941 Isom Rd, San Antonio, TX 78216, USA  
Telephone: 210-344-9566  
Telefax: 210-344-9569  
Web: [www.gandininnovations.com](http://www.gandininnovations.com)  
E-mail: [info@jetiprinters.com](mailto:info@jetiprinters.com)  
Emergency Telephone (North America): 800-424-9300  
Emergency Telephone (International): +1 703 527 3887

### 2. HAZARDS IDENTIFICATION

Physical state: Liquid  
Color: Blue  
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Emergency overview: **WARNING!**  
Irritating to eyes and skin. May cause sensitization by skin contact. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Wash thoroughly after handling..

#### Potential acute health effects

Eyes: Irritating to eyes.  
Skin: Irritating to skin. May cause sensitization by skin contact.

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Inhalation: Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Harmful if swallowed.

Carcinogenic effects: No known significant effects or critical hazards.

Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity / Reproductive toxicity: No known significant effects or critical hazards.

Medical conditions aggravated by overexposure: Pre-existing skin and digestive disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**See toxicological information (section 11).**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name</u>	<u>CAS Number</u>	<u>%</u>
Multifunctional acrylates		>70
Bis acryl phosphine oxide	162881-26-7	5-10
Aliphatic urethane acrylate		2.5-5
Tridecyl acrylate	3076-04-8	2.5-5
1-hydroxycyclohexyl phenyl	947-19-3	1-2.5

### 4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing 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.

Inhalation: Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or

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self-contained breathing apparatus. Keep person warm and at rest. 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 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.

Ingestion:

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

#### 5. FIRE-FIGHTING MEASURES

Flammability of the product:

In a fire or if heated, a pressure increase will occur and the container may burst.

Products of combustion:

Decomposition products may include the following materials:  
carbon oxides  
phosphorus oxides

#### Extinguishing media

Suitable:

Use an extinguishing agent suitable for the surrounding fire.

Not suitable:

None known.

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Special exposure hazards: 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.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: 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 (see section 8).

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).

Methods for cleaning up: 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 (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### **7. HANDLING AND STORAGE**

Handling: Put on appropriate personal protective equipment (see section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe

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vapor or mist. Do not ingest. 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.

**Storage:**

Store between the following temperatures: 5 - 35°C. 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. 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Consult local authorities for acceptable exposure limits.**

**Engineering measures:**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protection**

**Eyes:**

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.

**Skin:**

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.

**Respiratory:**

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.

**Hands:**

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.

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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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form: Liquid  
Color: Blue  
Flash point: Closed cup: >93.3°C (>199.9°F)  
Solubility: Insoluble in the following materials: cold water and hot water

#### **10. STABILITY AND REACTIVITY**

Stability and reactivity: The product is stable.  
Hazardous reactions: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **11. TOXICOLOGICAL INFORMATION**

##### **Acute toxicity**

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Tridecyl acrylate	LD50 Dermal	Rabbit	6300 uL/kg	-
	LD50 Oral	Rat	44700 uL/kg	-

Conclusion/Summary : No known significant effects or critical hazards.

##### **Chronic toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Carcinogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Mutagenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Teratogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Reproductive toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

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#### 12. ECOLOGICAL INFORMATION

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

Products of degradation: Products of degradation: carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.), phosphates.

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

**The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

#### 14. TRANSPORT INFORMATION

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

#### 15. REGULATORY INFORMATION

HCS Classification: Irritating material  
Sensitizing material  
Target organ effects

TSCA 8(b) inventory: Listed

U.S. Federal regulations  
TSCA 4(a) final test rules: 4-Methoxyphenol  
TSCA 8(a) PAIR: 4-Methoxyphenol

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**United States inventory (TSCA 8b):** All components are listed or exempted.  
TSCA 12(b) one-time export: 4-Methoxyphenol  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** tridecyl acrylate  
**SARA 311/312 MSDS distribution – chemical inventory - hazard identification:**  
tridecyl acrylate: Immediate (acute) health hazard  
Clean Water Act (CWA) 307: C. I. Pigment Blue 15  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

#### **State regulations**

Connecticut Carcinogen Reporting: None of the components are listed.  
Connecticut Hazardous Material Survey: None of the components are listed.  
Florida substances: None of the components are listed.  
Illinois Chemical Safety Act: None of the components are listed.  
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.  
Louisiana Reporting: None of the components are listed.  
Louisiana Spill: None of the components are listed.  
Massachusetts Spill: None of the components are listed.  
Massachusetts Substances: None of the components are listed.  
Michigan Critical Material: None of the components are listed.  
Minnesota Hazardous Substances: None of the components are listed.  
New Jersey Hazardous Substances: The following components are listed: COPPER COMPOUNDS  
New Jersey Spill: None of the components are listed.  
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.  
New York Acutely Hazardous Substances: None of the components are listed.  
New York Toxic Chemical Release Reporting: None of the components are listed.  
Pennsylvania RTK Hazardous Substances: The following components are listed: COPPER COMPOUNDS  
Rhode Island Hazardous Substances: None of the components are listed.

#### **International lists**

International lists: Australia inventory (AICS): At least one component is not listed.  
China inventory (IECSC): At least one component is not listed.  
Korea inventory (KECI): At least one component is not listed.  
Philippines inventory (PICCS): At least one component is not listed.  
Japan inventory (ENCS): At least one component is not listed.  
Canada inventory: At least one component is not listed.  
Europe inventory: At least one component is not listed.  
New Zealand Inventory (HASNO): Not listed.

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### 16. OTHER INFORMATION

Label requirements:

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.):

Health	2
Fire Hazard	1
Reactivity	2

National Fire Protection Association (U.S.A.):



### **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.

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## SAFETY DATA SHEET UV RTR LO MAGENTA INK

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

#### Product information

Product name: UV RTR LO Magenta Ink

Product code: JETI UV RTR LO - M

Use: Digital printing ink

Company: Gandi Innovations  
941 Isom Rd, San Antonio, TX 78216, USA

Telephone: 210-344-9566  
Telefax: 210-344-9569  
Web: [www.gandininnovations.com](http://www.gandininnovations.com)  
E-mail: [info@jetiprinters.com](mailto:info@jetiprinters.com)

Emergency Telephone (North America): 800-424-9300  
Emergency Telephone (International): +1 703 527 3887

### 2. HAZARDS IDENTIFICATION

Physical state: Liquid

Color: Red

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview: **WARNING!**  
Irritating to eyes and skin. May cause sensitization by skin contact. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Wash thoroughly after handling..

#### Potential acute health effects

Eyes: Irritating to eyes.

Skin: Irritating to skin. May cause sensitization by skin contact.

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### UV RTR LO MAGENTA INK

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Inhalation: Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Harmful if swallowed.

Carcinogenic effects: No known significant effects or critical hazards.

Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity / Reproductive toxicity: No known significant effects or critical hazards.

Medical conditions aggravated by overexposure: Pre-existing skin and digestive disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**See toxicological information (section 11).**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name</u>	<u>CAS Number</u>	<u>%</u>
Multifunctional acrylates		>70
Aliphatic urethane acrylate		2.5-5
Tridecyl acrylate	3076-04-8	2.5-5
1-hydroxycyclohexyl phenyl	947-19-3	2.5-5
Bis acryl phosphine oxide	162881-26-7	2.5-5

### 4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing 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.

Inhalation: Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or

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### UV RTR LO MAGENTA INK

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self-contained breathing apparatus. Keep person warm and at rest. 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 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.

Ingestion:

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

#### 5. FIRE-FIGHTING MEASURES

Flammability of the product:

In a fire or if heated, a pressure increase will occur and the container may burst.

Products of combustion:

Decomposition products may include the following materials:  
carbon oxides  
phosphorus oxides

#### Extinguishing media

Suitable:

Use an extinguishing agent suitable for the surrounding fire.

Not suitable:

None known.

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Special exposure hazards: 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.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: 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 (see section 8).

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).

Methods for cleaning up: 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 (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### **7. HANDLING AND STORAGE**

Handling: Put on appropriate personal protective equipment (see section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe

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vapor or mist. Do not ingest. 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.

**Storage:**

Store between the following temperatures: 5 - 35°C. 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. 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.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Consult local authorities for acceptable exposure limits.**

**Engineering measures:**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protection**

**Eyes:**

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.

**Skin:**

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.

**Respiratory:**

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.

**Hands:**

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.

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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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid  
Color: Red  
Flash point: Closed cup: >93.3°C (>199.9°F)  
Solubility: Insoluble in the following materials: cold water and hot water

#### 10. STABILITY AND REACTIVITY

Stability and reactivity: The product is stable.  
Hazardous reactions: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### 11. TOXICOLOGICAL INFORMATION

##### **Acute toxicity**

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Tridecyl acrylate	LD50 Dermal	Rabbit	6300 uL/kg	-
	LD50 Oral	Rat	44700 uL/kg	-

Conclusion/Summary : No known significant effects or critical hazards.

##### **Chronic toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Carcinogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Mutagenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Teratogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Reproductive toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

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#### 12. ECOLOGICAL INFORMATION

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

Products of degradation: Products of degradation: carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.), phosphates.

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

**The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

#### 14. TRANSPORT INFORMATION

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

#### 15. REGULATORY INFORMATION

HCS Classification: Irritating material  
Sensitizing material  
Target organ effects

TSCA 8(b) inventory: Listed

U.S. Federal regulations  
TSCA 4(a) final test rules: 4-Methoxyphenol  
TSCA 8(a) PAIR: 4-Methoxyphenol; Quinacridone Violet

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**United States inventory (TSCA 8b):** All components are listed or exempted.  
TSCA 12(b) one-time export: 4-Methoxyphenol  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** tridecyl acrylate  
**SARA 311/312 MSDS distribution – chemical inventory - hazard identification:**  
tridecyl acrylate: Immediate (acute) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

#### State regulations

Connecticut Carcinogen Reporting: None of the components are listed.  
Connecticut Hazardous Material Survey: None of the components are listed.  
Florida substances: None of the components are listed.  
Illinois Chemical Safety Act: None of the components are listed.  
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.  
Louisiana Reporting: None of the components are listed.  
Louisiana Spill: None of the components are listed.  
Massachusetts Spill: None of the components are listed.  
Massachusetts Substances: None of the components are listed.  
Michigan Critical Material: None of the components are listed.  
Minnesota Hazardous Substances: None of the components are listed.  
New Jersey Hazardous Substances: None of the components are listed.  
New Jersey Spill: None of the components are listed.  
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.  
New York Acutely Hazardous Substances: None of the components are listed.  
New York Toxic Chemical Release Reporting: None of the components are listed.  
Pennsylvania RTK Hazardous Substances: None of the components are listed.  
Rhode Island Hazardous Substances: None of the components are listed.

#### International lists

International lists: Australia inventory (AICS): At least one component is not listed.  
China inventory (IECSC): At least one component is not listed.  
Korea inventory (KECI): At least one component is not listed.  
Philippines inventory (PICCS): At least one component is not listed.  
Japan inventory (ENCS): At least one component is not listed.  
Canada inventory: At least one component is not listed.  
Europe inventory: At least one component is not listed.  
New Zealand Inventory (HASNO): Not listed.

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#### 16. OTHER INFORMATION

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Label requirements:

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.):

Health	2
Fire Hazard	1
Reactivity	2

National Fire Protection Association (U.S.A.):



**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.

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# SAFETY DATA SHEET

## UV RTR LO YELLOW INK

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

#### Product information

Product name: UV RTR LO Yellow Ink  
Product code: JETI UV RTR LO - M  
Use: Digital printing ink  
Company: Gandi Innovations  
941 Isom Rd, San Antonio, TX 78216, USA  
Telephone: 210-344-9566  
Telefax: 210-344-9569  
Web: [www.gandininnovations.com](http://www.gandininnovations.com)  
E-mail: [info@jetiprinters.com](mailto:info@jetiprinters.com)  
Emergency Telephone (North America): 800-424-9300  
Emergency Telephone (International): +1 703 527 3887

### 2. HAZARDS IDENTIFICATION

Physical state: Liquid  
Color: Yello  
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Emergency overview: **WARNING!**  
Irritating to eyes and skin. May cause sensitization by skin contact. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Wash thoroughly after handling..

#### Potential acute health effects

Eyes: Irritating to eyes.  
Skin: Irritating to skin. May cause sensitization by skin contact.

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Inhalation: Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Harmful if swallowed.

Carcinogenic effects: No known significant effects or critical hazards.

Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity / Reproductive toxicity: No known significant effects or critical hazards.

Medical conditions aggravated by overexposure: Pre-existing skin and digestive disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**See toxicological information (section 11).**

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Name</b>	<b>CAS Number</b>	<b>%</b>
Multifunctional acrylates		>70
Tridecyl acrylate	3076-04-8	2.5-5
Aliphatic urethane acrylate		2.5-5
1-hydroxycyclohexyl phenyl	947-19-3	2.5-5
Bis acryl phosphine oxide	162881-26-7	2.5-5

### **4. FIRST AID MEASURES**

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing 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.

Inhalation: Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or

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self-contained breathing apparatus. Keep person warm and at rest. 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 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.

Ingestion:

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

#### 5. FIRE-FIGHTING MEASURES

Flammability of the product:

In a fire or if heated, a pressure increase will occur and the container may burst.

Products of combustion:

Decomposition products may include the following materials:  
carbon oxides  
phosphorus oxides

#### Extinguishing media

Suitable:

Use an extinguishing agent suitable for the surrounding fire.

Not suitable:

None known.

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Special exposure hazards: 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.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: 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 (see section 8).

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).

Methods for cleaning up: 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 (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### **7. HANDLING AND STORAGE**

Handling: Put on appropriate personal protective equipment (see section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe

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vapor or mist. Do not ingest. 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.

**Storage:**

Store between the following temperatures: 5 - 35°C. 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. 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.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Consult local authorities for acceptable exposure limits.**

**Engineering measures:**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protection**

**Eyes:**

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.

**Skin:**

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.

**Respiratory:**

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.

**Hands:**

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.

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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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Form: Liquid  
Color: Red  
Flash point: Closed cup: >93.3°C (>199.9°F)  
Solubility: Insoluble in the following materials: cold water and hot water

#### **10. STABILITY AND REACTIVITY**

Stability and reactivity: The product is stable.  
Hazardous reactions: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **11. TOXICOLOGICAL INFORMATION**

##### **Acute toxicity**

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Tridecyl acrylate	LD50 Dermal	Rabbit	6300 uL/kg	-
	LD50 Oral	Rat	44700 uL/kg	-

Conclusion/Summary : No known significant effects or critical hazards.

##### **Chronic toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Carcinogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Mutagenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Teratogenicity**

Conclusion/Summary: No known significant effects or critical hazards.

##### **Reproductive toxicity**

Conclusion/Summary: No known significant effects or critical hazards.

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#### 12. ECOLOGICAL INFORMATION

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

Products of degradation: Products of degradation: carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.), phosphates.

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

**The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

#### 14. TRANSPORT INFORMATION

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

#### 15. REGULATORY INFORMATION

HCS Classification: Irritating material  
Sensitizing material  
Target organ effects

TSCA 8(b) inventory: Listed

U.S. Federal regulations  
TSCA 4(a) final test rules: 4-Methoxyphenol  
TSCA 8(a) PAIR: 4-Methoxyphenol

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**United States inventory (TSCA 8b):** All components are listed or exempted.  
TSCA 12(b) one-time export: 4-Methoxyphenol  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** tridecyl acrylate  
**SARA 311/312 MSDS distribution – chemical inventory - hazard identification:**  
tridecyl acrylate: Immediate (acute) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

#### State regulations

Connecticut Carcinogen Reporting: None of the components are listed.  
Connecticut Hazardous Material Survey: None of the components are listed.  
Florida substances: None of the components are listed.  
Illinois Chemical Safety Act: None of the components are listed.  
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.  
Louisiana Reporting: None of the components are listed.  
Louisiana Spill: None of the components are listed.  
Massachusetts Spill: None of the components are listed.  
Massachusetts Substances: None of the components are listed.  
Michigan Critical Material: None of the components are listed.  
Minnesota Hazardous Substances: None of the components are listed.  
New Jersey Hazardous Substances: None of the components are listed.  
New Jersey Spill: None of the components are listed.  
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.  
New York Acutely Hazardous Substances: None of the components are listed.  
New York Toxic Chemical Release Reporting: None of the components are listed.  
Pennsylvania RTK Hazardous Substances: None of the components are listed.  
Rhode Island Hazardous Substances: None of the components are listed.

#### International lists

International lists: Australia inventory (AICS): At least one component is not listed.  
China inventory (IECSC): At least one component is not listed.  
Korea inventory (KECI): At least one component is not listed.  
Philippines inventory (PICCS): At least one component is not listed.  
Japan inventory (ENCS): At least one component is not listed.  
Canada inventory: At least one component is not listed.  
Europe inventory: At least one component is not listed.  
New Zealand Inventory (HASNO): Not listed.

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#### 16. OTHER INFORMATION

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Label requirements:

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.):

Health	2
Fire Hazard	1
Reactivity	2

National Fire Protection Association (U.S.A.):



**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.

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