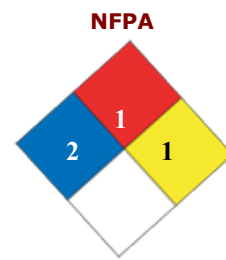


# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**Product Name:** UVR  
**SDS Manufacturer Number:** 182784  
**Product Use/Restriction:** Printing Plates  
**Manufacturer Name:** MacDermid Printing Solutions  
**Address:** 5210 Phillip Lee Drive  
Atlanta, GA 30336.  
USA  
**General Phone Number:** 1-800-348-7201  
**Emergency Phone Number:** 1-800-424-9300  
**SDS Creation Date:** June 07, 2013  
**SDS Revision Date:** June 07, 2013  
**(M)SDS Format:**



**HMIS**

<b>Health Hazard</b>	<b>2</b>
<b>Fire Hazard</b>	<b>1</b>
<b>Reactivity</b>	<b>1</b>
<b>Personal Protection</b>	<b>X</b>

## SECTION 2 - HAZARD(S) IDENTIFICATION

**GHS Pictograms:**



**Signal Word:** WARNING!

**GHS Class:** Eye Irritant, Category 2  
Skin Irritant, Category 2  
Skin Sensitizer, Category 1  
Hazardous to the aquatic environment

**Hazard Statements:** Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction  
Toxic to aquatic life with long lasting effects

**Precautionary Statements:** Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Take off contaminated clothing and wash it before reuse.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

**Emergency Overview:** WARNING! May cause severe irritation.

**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.

<b>Potential Health Effects:</b>	Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation
<b>Eye:</b>	Contact can cause moderate to severe irritation and possible injury to the eyes.
<b>Skin:</b>	Prolonged exposure can cause severe irritation.
<b>Inhalation:</b>	Prolonged or excessive inhalation may cause respiratory tract irritation.
<b>Ingestion:</b>	Ingestion of material is unlikely. Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.
<b>Target Organs:</b>	Eyes. Skin. Respiratory system. Digestive system.

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### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Chemical Name</b>	<b>CAS#</b>	<b>Ingredient Percent</b>	<b>EC Num.</b>
Styrenic copolymer with plasticizer	25038-32-8	60 - 100 by weight	
Acrylic esters	Proprietary	1 - 5 by weight	
Photoinitiator	Proprietary	1 - 5 by weight	
BHT	128-37-0	1 - 5 by weight	

**Note:** The specific chemical identify is being withheld as a Trade Secret. In the event of a medical emergency, specific chemical composition will be provided upon request by a physician or other health related personnel.

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### SECTION 4 - FIRST AID MEASURES

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<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
<b>Skin Contact:</b>	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
<b>Other First Aid:</b>	First Responders should provide for their own safety prior to rendering assistance.

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### SECTION 5 - FIRE FIGHTING MEASURES

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<b>Flash Point:</b>	Not determined.
<b>Auto Ignition Temperature:</b>	Not determined.

<b>Fire Fighting Instructions:</b>	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
<b>Extinguishing Media:</b>	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
<b>Unsuitable Media:</b>	Water may cause frothing.
<b>Protective Equipment:</b>	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Unusual Fire Hazards:</b>	When heated to decomposition, toxic fumes are emitted

### **NFPA Ratings:**

NFPA Health:	2
NFPA Flammability:	1
NFPA Reactivity:	1

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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<b>Personnel Precautions:</b>	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
<b>Environmental Precautions:</b>	Do not dispose of waste into sewer.
<b>Spill Cleanup Measures:</b>	Pick or scoop up material and put into a suitable container for proper disposal.

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## SECTION 7 - HANDLING and STORAGE

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<b>Handling:</b>	For industrial use only.
<b>Storage:</b>	Store between 70 and 80 °F to retain product quality. Protect from sunlight.
<b>Work Practices:</b>	Handle in accordance with good industrial hygiene and safety practices.
<b>Special Handling Procedures:</b>	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
<b>Hygiene Practices:</b>	Wash thoroughly after handling.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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<b>Engineering Controls:</b>	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
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<b>Eye/Face Protection:</b>	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
<b>Skin Protection Description:</b>	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
<b>Hand Protection Description:</b>	Wear heat resistant gloves when handling hot plates. Wear chemical resistant gloves when handling developed plates before drying.
<b>Respiratory Protection:</b>	Not required under normal developing conditions. A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**PPE Pictograms:**



## EXPOSURE GUIDELINES

### **BHT :**

<b>Guideline ACGIH:</b>	TLV-TWA: 2 mg/m <sup>3</sup> Inhalable vapor fraction (IVF)
<b>Finland :</b>	OEV-TWA: 10 mg/m <sup>3</sup> OEV-STEL: 20 mg/m <sup>3</sup>
<b>France :</b>	VL-TWA: 10 mg/m <sup>3</sup>
<b>Ireland :</b>	OELV-TWA: 10 mg/m <sup>3</sup>
<b>United Kingdom :</b>	OEL-TWA: 10 mg/m <sup>3</sup>
<b>Notes :</b>	Only established PEL and TLV values for the ingredients are listed.

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

<b>Physical State Appearance:</b>	Solid. Photopolymer plate.
<b>Color:</b>	Black.
<b>Odor:</b>	Gum
<b>Boiling Point:</b>	Not applicable.
<b>Melting Point:</b>	Not determined.
<b>Specific Gravity:</b>	0.98(Ref: water = 1).
<b>Solubility:</b>	Insoluble in water.
<b>Vapor Density:</b>	Not applicable.
<b>Vapor Pressure:</b>	Not applicable.
<b>Percent Volatile:</b>	None.
<b>Evaporation Rate:</b>	Not applicable.
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture
<b>Flash Point:</b>	Not determined.
<b>Auto Ignition Temperature:</b>	Not determined.

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## SECTION 10 - STABILITY and REACTIVITY

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<b>Chemical Stability:</b>	Stable under recommended handling and storage conditions.
<b>Hazardous Polymerization:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Heat, flames, ignition sources, and sparks. Incompatible materials. Freezing or temperatures below 32 deg. F.
<b>Incompatible Materials:</b>	Temperatures in excess of 400 °F can induce thermal decomposition Keep away from organic solvents which can dissolve the material.
<b>Special Decomposition Products:</b>	Thermal decomposition can lead to release irritant fumes and toxic gases.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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### **BHT :**

<b>Eye:</b>	Eye - Rabbit Standard Draize test.: 100 mg/24H [RTECS]
<b>Skin:</b>	Administration onto the skin - Human Standard Draize test.: 500 mg/48H Administration onto the skin - Rabbit Standard Draize test.: 500 mg/48H [RTECS]
<b>Ingestion:</b>	Oral - Mouse LD50: 650 mg/kg [Behavioral - Tremor Lungs, Thorax, or Respiration - Chronic pulmonary edema] Oral - Mouse LD50: 1040 mg/kg [Details of toxic effects not reported other than lethal dose value] [RTECS]

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## SECTION 12 - ECOLOGICAL INFORMATION

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<b>Ecotoxicity:</b>	May cause long-term adverse effects in the aquatic environment.
<b>Environmental Fate:</b>	No environmental information found for this product.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

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<b>Waste Disposal:</b>	Dispose of in accordance with Local, State, Federal and Provincial regulations.
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## SECTION 14 - TRANSPORT INFORMATION

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<b>DOT Shipping Name:</b>	Non regulated.
<b>DOT Hazard Class:</b>	Non regulated.

IATA Shipping Name: Non regulated.

IMDG UN Number : Non regulated.

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## SECTION 15 - REGULATORY INFORMATION

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**SARA:** This product does not contain any chemicals which are subject to the reporting requirements of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III (40CFR, Part 372).

**California PROP 65:** The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):  
**WARNING!** This product contains a chemical known to the State of California to cause cancer or reproductive toxicity.

**Canada WHMIS:** Xi - Irritant

**EU Class:** Irritant.  
In accordance to Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures

**Risk Phrases:** R36/37/38 - Irritating to eyes, respiratory system and skin.

**Safety Phrase:** S23 - Do not breathe gas/fumes/vapour/spray.  
S37 - Wear suitable gloves.

### **Styrenic copolymer with plasticizer :**

**TSCA Inventory Status:** Listed

**Canada DSL:** Listed

### **BHT :**

**TSCA Inventory Status:** Listed

**New Jersey:** Not listed

**Pennsylvania:** Listed

**Canada DSL:** Listed

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## SECTION 16 - ADDITIONAL INFORMATION

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**HMIS Health Hazard:** 2

**HMIS Fire Hazard:** 1

**HMIS Reactivity:** 1

**HMIS Personal Protection:** X

**SDS Creation Date:** June 07, 2013

**SDS Revision Date:** June 07, 2013

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