

# **Safety Data Sheet**

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product ID / Name: RH0044109 - Difficult Plastics Primer

Recommended Use: UV Printing Ink

Company Name: Zeller+Gmelin Corporation

Address: 4801 Audubon Drive, Richmond, Virginia 23231 USA

Telephone: (800) 84UV INK (800-848-8465)

Email: msds@zeller-gmelin.com
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CHEMTREC International and Maritime, +1 (703) 527-3887

### 2. HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW**

Appearance and Odor:

Color: Translucent
Appearance: Liquid
Odor: Ester like

#### **LABEL ELEMENTS**

**GHS-US** labeling

#### **HAZARD STATEMENTS**

**Hazard Pictogram:** 

Signal Word: WARNING!



Irritar



Contains acrylated materials

H302: Harmful if swallowedH315: Causes skin irritation

H317: May cause allergic skin reactionH319: Causes serious eye irritation

H361: Suspected of damaging fertility or the unborn child

### PRECAUTIONARY STATEMENTS

P264: Wash thoroughly with soap and water after handling.

P270: Do not eat, drink, or smoke when using this product.

P272: Contaminated work clothing should be restricted to the workplace. Wash contaminated clothing before reuse.

P281: Wear appropriate PPE – gloves / protective clothing / eye protection / face protection

IF ON SKIN: Wash thoroughly with soap and water. If skin irritation or rash occurs, seek medical attention.

IF IN EYES: Flush with copious amounts of water for at least 15 minutes, and seek medical attention.

S45: If you feel unwell, seek medical advice immediately (show the label where possible).

### POTENTIAL HEALTH EFFECTS OF EXPOSURE

Inhalation: Low volatile organic compound (VOC) content makes inhalation problems unlikely at room temperature; however, elevated

temperatures and/or aerosol formation may lead to irritation of the lungs.

Skin: Contains materials that may cause moderate skin injury (reddening and swelling). Prolonged contact may cause blister formation

and in some cases skin sensitization may occur.

Ingestion: Contains materials that may be slightly toxic.

Eyes: May cause severe pain and irritation upon direct exposure.

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#### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

CAS # / EC #	Chemical Name	Quantity - %
Trade Secret	Acrylate Resin	65 – 85
13048-33-4	2-Propenoic acid; 1, 6-hexanediyl ester	5 – 20
163702-01-0	Oligo [2-hydroxy-2-methyl-1-[4-(1methylvinyl) phenyl] propanone]	1 – 5
Trade Secret	Polymeric Diphenyl Methanone derivative	1 – 5

Specific composition and formulation of Zeller+Gmelin products are considered trade secrets; however, upon request, specific information may be provided to medical facilities and industrial hygienists.

Carcinogens are specifically noted in Section 11 if present. Carcinogen is defined as listed by International Agency for Research on Cancer (IARC), National Toxicology Program (NTP), American Conference of Governmental Industrial Hygienists (ACGIH), or Occupational Safety & Health Administration (OSHA).

### 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult seek medical assistance.

Skin: Wash affected areas thoroughly with soap and warm water. Remove contaminated clothing and footwear immediately.

Ingestion: Seek medical assistance promptly.

Eyes: Flush eyes with water for at least 15 minutes and seek medical assistance promptly. Do not rub eyes. Continue rinsing.

#### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray or fog, carbon dioxide or dry chemical fire extinguishers.

Extinguishing media to avoid: Avoid high-pressure water jet as this will spread the fire.

Protective equipment: Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting

protective clothing. See SDS section 8 (Exposure Controls / Personal Protection)

Hazardous Combustion Products: During fire, gases hazardous to health may be formed such as carbon monoxide (CO), carbon dioxide

(CO<sub>2</sub>), oxides of nitrogen (NO<sub>x</sub>), hazardous decomposition products due to incomplete combustion.

Special Hazards: Keep containers cool by spraying with water if exposed to fire.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective clothing, eye protection, respirator, and impermeable boots – refer to Section 8 –

Exposure Controls / Personal Protection.

Material release or spillage: Pick up any material with liquid binding or inert absorbent material. Sweep up and place in a waste

disposal container. Advise environmental authorities if spillage has entered waterways or drainage

system.

# 7. HANDLING AND STORAGE

Precautionary measures: Store in closed containers away from heat and open flame.

Store at room temperature, between 4°- 40°C (39° - 104°F)

Use in a ventilated area.

Wear protective clothing.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters - Components with limit values that require monitoring at the workplace.

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

OSHA - PEL or ACGIH - TLV:

OSHA Permissible Exposure Limits (PELs), American Conference of Governmental

Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and other exposure

limits have not been established for this UV Cured product.

**Exposure Controls** 

Respiratory Protection: (Specify Type): No special precautions needed with adequate ventilation.

Ventilation: Local Exhaust: Preferable

Mechanical (General): Preferable

Protective Gloves: Solvent-resistant protective gloves if contact is likely. Nitrile rubber recommended.

Eye Protection: Safety glasses with side shields / splash goggles

Other protective clothing and/or equipment: Wear impermeable boots if exposure levels warrant.

Work/Hygienic Practices: Avoid contact with skin and eyes. Wash hands before handling food.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Color Translucent
Physical State (Appearance) Liquid
Odor Ester-like
Odor Threshold N/A

Boiling Point N/A, decomposes or polymerizes first

Melting Point N/A Vapor Pressure (mm Hg) N/A N/A Vapor Density Viscosity (Kinematic) N/A Saturation in Air (% by volume) N/A Evaporation Rate (Bu.Ac.=1) <1 Specific Gravity (Relative Density) 1 14 N/A Solubility in Water N/A Partition Coefficient: n-octanol/water N/A Percent Volatile VOC (% by wt.) <1% w/w

Flash Point >212°F (>100°C)

Flammability (solid, gas)

Decomposition temperature

N/A

Auto ignition temperature

N/A

### 10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and transportation conditions

Conditions to Avoid: Exposure to sunlight or other sources of UV radiation, exposure to ionizing radiation.

Heat, flames, and sparks. Contact with incompatible materials.

Incompatibility: (Materials to Avoid): Avoid mixing with vigorous oxidizing materials, peroxides, strong bases and alkalis.

Hazardous Decomposition / By-products:

No hazardous decompositions products are known during normal usage.

High temperatures and/or fire conditions may cause rapid and uncontrolled

polymerization.

### 11. TOXICOLOGICAL INFORMATION

Toxicological information for these products is also found under Section 2., HAZARDS IDENTIFICATION.

The toxicological information on these products has not been fully investigated. Direct contact with this material may cause moderate to severe irritation of the skin, eyes, respiratory and moderate irritation of the gastrointestinal tract. There are no reportable quantities of carcinogenic substances as defined by IARC, NTP, ACGIH, or OSHA health organizations. A minor component (CAS# 163702-01-0) is a Category 2 reproductive toxin (H361f) with suspected impact on fertility.

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### 12. ECOLOGICAL INFORMATION

Toxicity: The ecological properties of these products have not been fully investigated.

Persistence and Degradability: Not established Bio-accumulative Potential: Not established

Mobility in Soil: No additional information is available

Other information: Do not release to the environment. A minor component has been classed as an aquatic toxin. Avoid entry of

this product into drains and waterways.

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Do not allow product to enter drainage system. Dispose of in accordance with local, State and Federal

regulations. Incineration is the preferred method. Contact a professional environmental disposal company in

your area. Refer to guidelines in the Resource Conservation & Recovery Act (RCRA).

### 14. TRANSPORT INFORMATION

Refer to appropriate local, state or national transport regulations for specific requirements.

US DOT: Not Regulated
Transport Canada: Not Regulated
Air Transport (ICAO / IATA): Not Regulated
Sea Transport (IMDG / IMO): Not Regulated

### 15. REGULATORY INFORMATION

### **Inventory Information - TSCA**

United States (USA): All components of this product are included on the TSCA Chemical Inventory or are exempt from listing on the TSCA

Chemical Inventory.

CERCLA Hazardous Substance List (40 CFR 302.4) Not Applicable

Heavy Metals - Products meet CONEG requirements.

S	ARA	Hazar	d N	lotifi	cation

Hazard categories under Title III Rules (40 CFR 370)

X Immediate Health (Acute)

X Reactive

Section 311 / 312:

Delayed Health (Chronic)

Fire Hazard

\_\_ Sudden Pressure Release \_\_\_ None

Section 302 Extremely Hazardous Substances:

Not Applicable

Section 313 Toxic Chemical(s):

Not Applicable

### **OSHA Hazard Communication Standard**

(29 CFR 1910.1200): X Irritant \_\_ Unstable Reactive

## California Proposition 65

Zeller+Gmelin products may contain trace levels of Prop 65 materials.

### International Regulations

Chemical Weapons Convention: Covered products do not contain any component(s) listed under the Chemical

Weapons Convention Schedule of Chemicals.

Hazards to the Ozone Layer Covered products do not contain substances identified as causing damage to the

ozone layer, including CFC or HCFC. Reference the Montreal Protocol.

PFC (perfluorinated chemicals)

Covered products do not contain long -chain (PFCs).

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R.E.A.C.H. and SVHC: Covered products do not contain any known amounts of materials on the REACH

SVHC Candidate ("Black") List of chemicals, the REACH Restricted List (Annex XVII) of substances, or the REACH Authorization list (Annex XIV) of substances as issued by the European Chemical Agency (ECHA). Products manufactured in the

EU comply with REACH Directive 1907/2006 EC.

RoHS (Restriction of Hazardous Substances): Covered products allow for compliance with RoHS 2: Directive 2002/95/EC,

Directive 2011/65/EU of the European Parliament, and of the Council of 8 June 2011 restricting the use of certain hazardous substances in electrical and electronic equipment, medical devices and monitoring and control instruments, and certain cables. Products are well below the maximum concentration limits of lead (0.1%), mercury (0.1%), cadmium (0.01%), hexavalent chromium (0.1%), polybrominated

biphenyls [PBB] (0.1%), and polybrominated diphenyl ethers [PBDE] (0.1%)

Canada Regulations

Workplace Hazardous Materials Information System: (WHMIS Classification): This product is not WHMIS controlled.

Domestic Substances List (DSL): Components are either exempt or listed on the DSL.

Non-Domestic Substances List (NDSL): Approximately 4.41% of product components are NDSL listed.

**16. OTHER INFORMATION** 

Last Revision: 25 July 2017 Supersedes: 21 July 2015

Prepared by: Regulatory Affairs, R&D

NOTE: The information herein is given in good faith and is believed to be accurate as of the date prepared. No warranty, expressed or implied, is made. It is the responsibility of the user to determine if Zeller+Gmelin Corporation products are suitable for their applications. This document prepared in accordance with OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), third revised edition, United Nations, 2009.

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