

# MATERIAL SAFETY DATA SHEET

## THE HALLSTAR COMPANY

### Section 1 - Identification of Substance and Company

**Product Name:** MONOPLEX<sup>®</sup> DAP

**Product Code:** A047

**Chemical Name:** Diallyl Phthalate

**Supplier:** The HallStar Company <sup>(1)</sup>  
120 S. Riverside Plaza Suite 1620  
Chicago, IL 60606 PH: 877-427-4255  
USA

**HMIS**  
Health: 2  
Flammability: 1  
Reactivity: 0  
Gloves & Safety Glasses

**Emergency Phone Numbers:** The HallStar Company (708) 594-5999  
CHEMTREC (transportation) (800)424-9300

### Section 2 - Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>
Diallyl Phthalate	131-17-9

### Section 3 - Hazard Identification

**Appearance/Odor:** Colorless liquid; mild odor.

#### Potential Health Effects

**Skin Contact:** Repeated or prolonged skin contact may cause moderate skin irritation.  
**Eye Contact:** May cause moderate eye irritation of susceptible persons.  
**Ingestion:** May be harmful if swallowed. May irritate mouth, throat and stomach.  
**Inhalation:** May cause coughing, shortness of breath, dizziness, intoxication and collapse.  
Repeated or prolonged exposure may result in liver damage.

### Section 4 - First Aid Measures

**Skin Contact:** Wash affected skin with soap and water. Seek medical attention if symptoms persist.  
**Eye Contact:** Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, consult a physician.  
**Ingestion:** Give lukewarm water and induce vomiting if victim completely conscious/alert. If you feel unwell, seek medical advice.  
**Inhalation:** Person should be moved to a fresh air environment. Obtain medical attention if breathing difficulty persists.

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## Section 5 - Explosion and Fire-Fighting Measures

**Flash Point (COC):** 331°F  
**Extinguishing Media:** CO<sub>2</sub>, Dry Chemical, Water Fog, or Foam  
**Special Fire-Fighting Procedures:** A MSHA/NIOSH approved self-contained breathing apparatus should be worn. Use water spray to cool fire-exposed containers.  
**Hazardous Combustion Products:** Carbon oxides may form.  
**Unusual Fire and Explosion Hazards:** Heat from fire can generate flammable vapor. Vapors may be heavier than air and may travel long distances along ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point. Incomplete combustion may produce carbon monoxide, and acrid fumes of allylic compounds.

## Section 6 - Accidental Release/Spill Procedures

**Steps to be Taken in Case Material is Released or Spilled:** Eliminate all sources of ignition. Dike and contain the spill with inert material (i.e., sand, earth, sawdust) and transfer liquid and solid diking material to separate containers for recovery or disposal. Wash floor area with hot water solution. Remove contaminated clothing and wash before reuse. Wash affected skin areas with soap and water. Keep spills out of all sewers and bodies of water.

## Section 7 - Handling and Storage

Any use of this product in an elevated temperature process should be evaluated to establish and maintain safe operating procedures. Keep away from sparks and flames and other sources of ignition.

Keep from contact with oxidizing materials. Empty containers should be thoroughly rinsed.

Containers should be kept tightly closed and stored in a dry well-ventilated place. Material can attack some forms of plastics.

When normal handling requires heating, do not heat higher than 28°C/50°F below flash point temperature unless in air-free closed system sealed off from the atmosphere.

## Section 8 - Personal Protection

**OSHA Permissible Exposure Limit (PEL):** Not established  
**UK Workplace Exposure Limit (WEL):** 5 mg/m<sup>3</sup> [EH40/2005]

**Hand Protection:** Neoprene or Viton Gloves  
**Respiratory Protection:** Use a NIOSH approved respirator when exposure to mists or vapors is anticipated.  
**Eye Protection:** Safety glasses or safety goggles  
**Engineering Measures:** For normal operation, local exhaust ventilation should suffice. Direct exhaust may be necessary when material becomes heated and vapors are given off.  
**Other:** Eyewash facility in vicinity.

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### Section 9 - Physical and Chemical Properties

<b>Boiling Point:</b>	315°F	<b>Specific Gravity:</b>	1.12
<b>Flash Point (COC):</b>	331°F	<b>Freezing Point:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Solubility in Water:</b>	Negligible
<b>Appearance/Odor:</b>	Colorless liquid; mild odor		

### Section 10 - Stability and Reactivity

<b>Stability:</b>	This product is stable under normal conditions.
<b>Conditions to Avoid:</b>	High pressure. Do not distill at atmospheric pressure; high pressure required may cause polymerization. Ultraviolet light. Oxidizers. Strong acids, alkalies.
<b>Hazardous Polymerization:</b>	May occur.
<b>Hazardous Decomposition:</b>	In case of fire, the harmful and irritating substance such as phthalic anhydride can be produced.

### Section 11 - Toxicological Information

#### Acute Toxicity:

LC-50 (Inhl): (rat)	5200 mg/m <sup>3</sup>
Oral LD-50: (rat)	656 mg/kg
Oral LD-50: (rabbit)	1700 mg/kg
Dermal LD-50: (rabbit)	3300 mg/kg

**Repeated Dose Toxicity** Report from a two year Gavage Study (chronic) conducted with rats showed a significantly increased incidence of mononuclear cell leukemia in female rats and chronic liver disease in both sexes. The association between the increase is considered to be uncertain. In the final report on a similar study with mice, it was concluded that Diallyl Phthalate (DAP) is not carcinogenic, however, chronic hyperplasia of the stomach was common (Toxicology and Carcinogenesis Studies of Diallyl Phthalate in F344/N Rats Gavage Studies, U.S. National Toxicology Program (NTP) Technical Report Series No. 284 and carcinogenesis bioassay of Diallyl Phthalate in B6C3F1 mice (Gavage Study) NTP No. 242).

### Section 12 - Ecological Information

This product does not contain any ozone depleting compounds (ODC's).

### Section 13 - Disposal Considerations

**Waste Disposal Methods:** Material should be disposed of in accordance to current local, state, and federal regulations. Contacting a waste disposal service is recommended.

### Section 14 - Transport Information

Not regulated by the Department of Transportation

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## Section 15 - Regulatory Information

**Toxic Substances Control Act (TSCA):** This product is in compliance with the TSCA regulation of the United States.

**Domestic Substance List (DSL):** This product is listed on the DSL inventory of Canada.

**European Inventory of Existing Chemical Substances (EINECS):** This product is listed on the EINECS inventory of Europe (#205-016-3).

**Australian Inventory of Chemical Substances (AICS):** This product is listed on the AICS inventory of Australia.

**ECL (Korean Toxic Substances Control Act):** This product is listed on the Korean Inventory or otherwise complies with the Korean Toxic Substances Control Act.

**Superfund Amendments and Reauthorization Act (SARA):** This product has the following hazards as defined in Section 311/312 of 40 CFR Part 372:

Hazards

Acute Health Hazard

Chronic Health Hazard

This product contains the following chemicals subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372:

Ingredients

None

**California Proposition 65:** This product contains the following substances known to the State of California to cause cancer, birth defects, or other reproductive harm per the Safe Drinking Water and Toxic Enforcement Act of 1986:

Ingredients

None

## Section 16 - Other Information

Prepared By: DCU

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All information is presented in good faith using available information. The HallStar Company makes no representation of the accuracy or completeness of the information. The user should consider this information as a supplement to other information that may be available. User should also determine suitability of information in their situation to determine proper use and disposal, protection of persons and the environment.

<sup>(1)</sup> Affiliated companies include RTD\*HallStar Inc., HallStar Solutions Corp., Ester Solutions Company, Memphis Solutions Company and Marine Magnesium & Minerals Company.