

SECTION 1. Identification of the substance / mixture and of the company

PRODUCT IDENTIFIER: Diallyl Ortho Phthalate Molding Compound
Trade Name: D45 (All Grades and Colors)
Chemical Name: Mixture
CAS No.: None Assigned
Intended Product Use: Thermoset molding of electronic encapsulation
Restrictions on use: None known

NAME, ADDRESS, AND TELEPHONE OF MANUFACTURER

Cosmic Plastics Inc.
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SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS-US classification: Possible Irritant

Label Elements

GHS-US labeling
Hazard Pictograms (GHS-US)



Signal word Warning
Hazard statements (GHS-US): Skin Sens. 1: H316 May cause mild skin irritation.
 Eye Irritation: H320 May cause eye irritation.
 Respiratory: H335 May cause respiratory irritation

EMERGENCY OVERVIEW: This product is a solid, powder compound in various colors with little to no odor. **Health Hazard:** This product may cause mild irritation to nose, throat, lungs or skin. Possible mild mechanical irritation to eyes. Ingestion may cause irritation of the mouth, throat and gastrointestinal tract. **Flammability Hazards:** This product is not flammable. **Reactivity Hazards:** This material does not react with water. **Environmental Hazards:** This material is not biodegradable. Long-term adverse effects in aquatic environments has not been determined. **Emergency Considerations:** Emergency responders must wear the proper personal protective equipment (and have appropriate fire suppression equipment) suitable for the situation to which they are responding.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Product-type:</u>	This product is a mixture.	
<u>Components</u>	<u>CAS Numbers</u>	<u>Percent</u>
Diallyl Phthalate Resin	N.A.	30-40%
Mineral Fillers	Mixture	20-30%
Flame Retardants	Mixture	< 5%
Pigments	Mixture	< 5%
Catalysts	Mixture	< 5%

These are typical compositions and may vary among products. A certificate of analysis is available upon request.

SECTION 4. FIRST AID MEASURES

General Information: Change contaminated clothing.

Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Get medical attention.

Eye Contact: Flush with running water for at least 15 minutes. Do not scrub. Get medical attention if irritation persists.

Skin Contact: Wipe excess material from skin and wash with soap and water. Get medical attention if irritation persists. Wash clothing before reuse. Get medical attention if irritation occurs.

Ingestion: If swallowed, dilute with large amounts of water or milk. DO NOT INDUCE VOMITING. Consult physician if unusual reaction is noted. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media: Dry Chemical, Water Spray (Fog), Foam, Carbon Dioxide

Special Fire Fighting Procedures: Some component materials may thermally decompose or burn emitting toxic fumes and smoke including carbon dioxide and carbon monoxide. Fire fighters should wear full protective gear including eye protection and self-contained breathing apparatus (SCBA). Do not release runoff from fire control methods to sewers or waterways.

Flash Point (^oF) and Method: N.A.

Flammable Limits in air (volume %): Lower (LEL): N/A Upper (UEL): N/A

Autoignition Temperature, ^oF: N.A.

Unusual Fire and Explosion Hazards: None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use with local exhaust to control dust formations
Ensure adequate ventilation
Wear personal protective equipment (see section 8) when responding to spills.

Environmental Precautions: Do not discharge into the drains/surface waters/groundwater.

Spills / Leaks: Sweep or vacuum spills into appropriate containers for disposal. This material is not regulated under RCRA or CERLA ("Superfund")

Regulatory Requirements: Follow applicable OSHA (29 CFR 1910.120), state or local regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Provide appropriate exhaust ventilation at places where dust can be generated. Wear an approved dust respirator and eye protection (goggles, safety glasses). Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for safe storage Store in closed, properly labeled containers in a dry location between 70°F and 89°F. Do not transfer to unmarked containers.

Shelf life: Use within 12 months.

Labeling D.O.T.: No special labels are required.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**Control Parameters**

<u>Chemical Names</u>	<u>Exposure Limits in Air</u>	
	<u>ACGIH TLV TWA</u>	<u>OSHA PEL</u>
Diallyl Phthalate Resin	N/E	N/E
Mineral Fillers	10-15 mg/m ³ Total	6-15 mg/m ³ Total
Flame Retardants	2 mg/m ³ Total	2 mg/m ³ Total
Pigments	3.5 mg/m ³ Total	3.5 mg/m ³ Total
Catalysts	N/E	N/E

Exposure Controls:

Appropriate engineering controls: Ensure all national/local regulations are observed. General and/or local exhaust ventilation to control airborne dust levels below exposure limits.

Biological Exposure Limit: N/A

Personal Protective Equipment:

Respirators: Recommended that users wear NIOSH/MHSA approved disposable respirators designed for nuisance-type dusts in accordance with the OSHA respirator regulation 29CFR 1910.134.

Eye Protection: Wear appropriate protective glasses or chemical safety goggles as described by OSHA's eye and face protection regulations 29 DFR 1910.133. Have eyewash facilities readily available.

Skin Protection: Wear appropriate protective gloves to prevent skin exposure. Wash with mild soap and water after handling.

Clothing: Wear appropriate protective clothing to prevent skin exposure. Wash clothing after use.

Chronic overexposure effects: There are no known chronic effects associated with this material.

Work practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

**Potential Health Effects**

Primary Routes of Entry: Inhalation, ingestion, skin and eye contact

Acute Inhalation: Temporary upper respiratory irritation.

Chronic Inhalation: None known.

Acute Skin Contact and Sensitization: Temporary redness, skin irritation and itching through mechanical abrasion.

Chronic Skin Contact: Not known, none observed to date.

Skin Absorption: Occasional temporary redness, skin irritation and itching.

Acute Ingestion: Contact physician if unusual reaction is noted.

Chronic Ingestion: None known.

Acute Eye Contact: Temporary eye redness and irritation.

Chronic Eye Contact: Not known, none observed to date.

Medical Conditions Which May Be Aggravated: Pre-existing conditions which may be aggravated by mechanical irritants upon inhalation or skin contact.

Carcinogenicity: This product is not considered carcinogenic by OSHA, NTP, or IARC.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical Form: Solid (Granules or preforms)

Appearance: Granular of various colors

Odor: Mild

Odor threshold: Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks *Method</u>
pH-Value:	Not determined	
Boiling Point:	Not applicable	

Change in condition	
Melting point:	Not applicable
Boiling point:	Not applicable
Specific Gravity @15°C (59°F)	1.74 (water = 1.00)
Decomposition Temperature:	N/A
Flash Point:	None
Auto-ignition Temperature:	No information available
Explosive Properties:	N/A
Water Solubility:	Insoluble in water.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Reactivity:	Not reactive under normal conditions.
Corrosive properties:	Not corrosive
Reactivity with water:	Not reactive with water.
Conditions to avoid:	Open Fire, and strong oxidizing agents such as chlorates, bromates and nitrates.
Hazardous polymerization:	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Inhalation:	Nuisance dust. May cause irritation through mechanical irritation.
Eye Contact:	Nuisance dust. May cause irritation through mechanical irritation.
Skin Contact:	Nuisance dust. May cause irritation through mechanical irritation.
Ingestion:	No Data Available
Acute Toxicology:	No Data Available.
Chronic (Long-term) Effects:	No Data Available.
Carcinogenicity:	This product is not considered as carcinogenic by OSHA, IARC, NTP or ACGIH.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:	No Data Available
Mobility in soil:	No Data Available
Biodegradability:	Not biodegradable
Other information:	Avoid release to the environment

SECTION 13. DISPOSAL CONSIDERATIONS

This product is not considered hazardous as defined by CERCLA/RCRA (40 CFR Part 261).
Material is not recyclable.
Dispose of in compliance with Federal, State and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN – number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not classified as dangerous goods under Department of Transportation regulations: (49 CFR 172.101) for road, rail, sea or air transport.
National Motor Freight Classification (NMFC):	156200, Class 60
D.O.T. Regulation:	Not regulated.
Export Schedule B Number:	3907.91.4000 <i>Resins Polyester, Unsaturated, Including Allyl Resins</i>

SECTION 15. REGULATORY INFORMATION

OSHA Hazard Communication Rule, 29 CFR 1910.1200: This product is not classified a hazardous chemical.

Toxic Substance Control Act:

This product is not subject to any legal reporting requirements under this act.

Emergency Planning and Community Right-To-Know Acts:

This product is not considered as hazardous or toxic under Federal SARA, Title III or California Prop 65 definitions.

CERCLA/Superfund, 40 CFR 117, 302: This product contains no Reportable Quantity (RQ) substances.

SECTION 16. OTHER INFORMATION**Legend:**

Identification: SDS-D45.00

Issue Date: 6/1/15

Indication of changes: Most recent revisions are noted by the bold, double bars in the left-hand margin throughout the document.

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Personal Protection</u>
NFPA Rating:	1	1	0	
HMIS Rating:	1	1	0	E
<u>Degree of Hazard</u>				
0-Minimal	1-Slight	2-Moderate	3-Serious (High)	4-Severe (Extreme) *Chronic

PPE Codes (NPCA-HMIS):

A – Glasses

B – Glasses, Gloves

C – Glasses, Gloves, Apron

D – Face shield, Gloves, Apron

E – Glasses, Gloves, Dust mask

F – Glasses, Gloves, Apron, Dust Respirator

G – Gloves

H – Goggles, Gloves, Apron, Vapor Respirator

I – Glasses, Gloves, Dust/Vapor Respirator

J – Goggles, Gloves, Apron, Dust/Vapor Respirator

K – Supplied Air, Gloves, Apron, Dust/Vapor Respirator

Disclaimer

The information above is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. However, we make no warranty of merchantability or other warranty, express or implied, with respect to such information and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Cosmic Plastics, Inc. will assume no liability in connection with any uses of this information. Nor will Cosmic Plastics, Inc. be responsible for any claims, losses, or damages of any third parties, or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.