



SAFETY DATA SHEET

(Revision: 2/21/2019; Supersedes: 3/25/2015)

1. Identification.

- **Product Type:** Paint On Die Spacer
- **Trade Names:** P.D.Q. Die Spacer, Grey and Blue
P.D.Q. Thinner
- **Product Use:** Paint-On Die Hardener
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- **Company** Whip Mix Corporation
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361 Farmington Avenue
Louisville, Kentucky, USA 40209
Emergency Telephone Number: (502) 634-1451
Fax Number: (502) 634-4512
Transportation CHEMTREC 1(800) 424-9300 (U.S. and Canada)
Emergencies: International Calls: 1- 703-527-3887 (Collect calls accepted)

2. Hazard Identification

OSHA/GHS Classification (1272/2008):

Health Hazards	Physical Hazards
Skin Irritation Category 2 (H315) Skin Sensitization Category 1 (H317) Eye Irritation Category 2 (H319) Specific Target Organ Toxicity – Single Exposure Category 3 (H336)	Flammable Liquid Category 3 (H226)

Label Elements:

Danger!



Flammable liquid and vapor.
Causes skin irritation.
May cause an allergic reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment
Use explosion-proof electrical, ventilating and lighting equipment.
Use only non-sparking tools.
Take action to prevent static discharge.
Avoid breathing mist, vapors or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye protection.

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical attention.

If eye irritation persists: Get medical attention.

Wash contaminated clothing before reuse.

In case of fire: Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish.

Storage and Disposal

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

Other Hazards: None

3. Composition/Information on Ingredients.

<u>Substance</u>	<u>CAS No.</u>	<u>%</u>
Methyl Ethyl Ketone	78-93-3	50-70%
Titanium Dioxide*	13463-67-7	10-20%
Propylene Glycol Monomethyl Ether Acetate	108-65-6	1-10%
Light Aromatic Solvent Naphtha	64742-95-6	1-10%
Timethylbenzene	25551-13-7	1-10%
1,2,4 Trimethylbenzene	95-63-6	1-10%
Methyl Methacrylate	80-62-6	0.1 - 1%

* The titanium dioxide in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore this product is not classified as a carcinogen.

The specific identity and/or concentration of composition has been withheld as a trade secret.

See Section 16 for full text of GHS Classifications.

4. First-Aid Measures.

Inhalation: Remove exposed person to fresh air. If irritation or other symptoms persist, get medical attention.

Eyes: Flush with large quantities of water for several minutes, holding the eyelids apart. If irritation develops or persists consult a physician.

Skin: Wash skin with soap and water. If irritation or rash develops, get medical attention.

Ingestion: If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting. Get medical attention.

Most important symptoms/effects, acute and delayed: Causes eye irritation. Prolonged skin contact may cause irritation and drying of the skin. May cause an allergic skin reaction. Inhalation of vapors or mists may cause respiratory irritation and central nervous system effects. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of Any Immediate Medical Attention and Special Treatment Needed: Immediate medical attention is not required under normal conditions of use.

5. Fire-Fighting Measures.

Suitable (and unsuitable) Extinguishing Media: Use water fog, alcohol foam, carbon dioxide or dry chemical.

Specific Hazards Arising From the Chemical: This product is highly flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. Combustion may produce carbon monoxide and carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

6. Accidental Release Measures.

Personal Precautions, Protective Equipment and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing as described in Section 8.

Environmental Hazards: Report releases as required by local and national authorities.

Methods and Materials for Containment and Cleaning up: Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak. Do not flush to sewer!

7. Handling and Storage.

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing vapors. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas. Use with non-sparking tools and explosion proof equipment. Electrically bond and ground containers for transfer.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, including Any Incompatibilities: Store in accordance with regulations for the storage of flammable liquids. Store in a dry, well ventilated area away from heat, direct sunlight and all sources of ignition. Store away from oxidizers and other incompatible materials. Protect from physical damage.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits:

Methyl Ethyl Ketone	200 ppm TWA OSHA PEL 200 ppm TWA, 300 ppm STEL ACGIH TLV
Titanium Dioxide	15 mg/m ³ TWA (total dust) OSHA PEL 10 mg/m ³ TWA ACGIH TLV
Propylene Glycol Monomethyl Ether Acetate	50 ppm TWA AIHA WEEL
Light Aromatic Solvent Naphtha (as stoddard solvent)	Not established
Timethylbenzene	25 ppm TWA ACGIH TLV
1,2,4 Trimethylbenzene	25 ppm TWA ACGIH TLV
Methyl Methacrylate	100 ppm TWA OSHA PEL 50 ppm TWA, 100 ppm STEL ACGIH TLV (sensitizer)

Refer to local regulations for exposure limits not listed above.

Appropriate engineering controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Respiratory protection: If the exposure limits are exceeded an approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

Skin protection: For prolonged use wear poly vinyl alcohol gloves.

Eye protection: Chemical safety goggles if splashing is possible.

Other: Impervious clothing as needed to avoid contamination of personal clothing.

9. Physical and Chemical Properties.

Appearance: Transparent liquid in assorted colors (yellow, blue or red Thinner is colorless

Odor: Acetate odor.

Odor threshold: 0.27 (methyl ethyl ketone)

Melting point/freezing point: -123°F (-86°C)

Flash point: 25°F (-4°C) SFCC

pH: Not available

Boiling point: 176°F (80°C)

Evaporation rate: >1 (ether =1)

Flammability (solid, gas): Not applicable Flammable limits: LEL: 1.0% Vapor pressure: 70 mmHg @ 20°C Relative density: 1.0 Partition coefficient: n-octanol/water: Not available Decomposition temperature: Not available Explosive Properties: Not applicable	Autoignition: Temperature: 961°F (546°C) UEL: 12% Vapor density (air = 1): >1 Solubility In Water: Partial Auto-ignition temperature: Not available Viscosity: Not applicable Oxidizing Properties: Not applicable
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10. Stability and Reactivity.

Reactivity: None known.

Chemical stability: Stable

Possibility of hazardous reactions: Methyl Ethyl Ketone may react violently with strong oxidants and inorganic acids causing fire and explosion hazard. Methyl Ethyl Ketone can attack some plastic.

Conditions to avoid: Keep away from heat and all sources of ignition.

Incompatible materials: Avoid oxidizing agents, acids and bases.

Hazardous decomposition products: Thermal decomposition may produce carbon monoxide and carbon dioxide.

11. Toxicological Information.

Potential Health Effects:

Eyes: May cause irritation with redness, tearing and stinging.

Skin: May cause allergic skin reaction. Prolonged contact may cause irritation and drying of the skin.

Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, abdominal pain, nausea, vomiting and unconsciousness.

Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, drowsiness, fatigue, nausea, shortness of breath, confusion, and unconsciousness.

Chronic Health Effects: None known.

Sensitization: Methyl Methacrylate was shown to cause sensitizing in a mouse local lymphnode assay

Mutagenicity: Light Aromatic Solvent Naphtha have been shown to cause mutagenic activity.

Reproductive Toxicity: Light Aromatic Solvent Naphtha have been shown to reproductive or developmental toxicity.

Carcinogenicity: Titanium dioxide is listed by IARC as a group 2B carcinogen (possible human carcinogen).

Titanium dioxide is encapsulated so no inhalable exposure occurs during use or disposal are anticipated. None of the other components >0.1 are listed by OSHA, IARC or NTP as a carcinogen.

Acute Toxicity Data: This mixture is not classified as an Acute Toxicity.

12. Ecological Data.

Ecotoxicity:

Methyl ethyl ketone: 96 hr LC50 Pimephales promelas 2993 mg/L, 48 hr LD50 daphnia magna 3.8 mg/L, 96 hr EC50 Pseudokirchnerella subcapitata 2029 mg/L

Titanium Dioxide: No data available

Propylene Glycol Monomethyl Ether Acetate: 96 hr LC50 Oncorhynchus mykiss 100 mg/L, 48 hr EC50 daphnia magna >500 mg/L, 96 hr EC50 Pseudokirchneriella subcapitata >1000 mg/L

Light Aromatic Solvent Naphtha: 96 hr LL50 Oncorhynchus mykiss 15 mg/L, 48 hr LL50 daphnia magna 4.5 mg/L, 72 hr EL50 Pseudokirchneriella subcapitata 3.1 mg/L

Trimethylbenzene: 96 hr LC50 Pimephales promelas 7.72 mg/L, 48 hr EC50 daphnia magna 3.6 mg/L, 96 hr EC50 Green algae 2.345 mg/L (estimated)

1,2,4 Trimethylbenzene: 96 hr LC50 Pimephales promelas 7.72 mg/L, 48 hr EC50 daphnia magna 3.6 mg/L, 96 hr EC50 Green algae 2.345 mg/L (estimated)

Methyl Methacrylate: 96 hr LC50 Oncorhynchus mykiss >79 mg/L, 48 hr EC50 daphnia magna 69 mg/L, 72 he EC50 Pseudokirchnerella subcapitata >110 mg/L

Persistence and degradability: Methyl ethyl ketone, propylene glycol monomethyl ether acetate and methyl methacrylate are readily biodegradable. Light aromatic solvent naphtha is inherently biodegradable.

Bioaccumulative potential: Methyl ethyl ketone has a BCF of 3. This suggests the potential for bioconcentration in aquatic organisms is low.

Mobility in soil: Methyl ethyl ketone is highly mobile in soil.

Other adverse effects: None known.

13. Disposal Considerations.

Dispose in accordance with all national and local regulations.

14. Transport Information.

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	UN1193	Methyl Ethyl Ketone Solution	3	PG II	
CANADIAN TDG	UN1193	Methyl Ethyl Ketone Solution	3	PG II	
EU ADR/RID	UN1193	Methyl Ethyl Ketone Solution	3	PG II	
IMDG	UN1193	Methyl Ethyl Ketone Solution	3	PG II	
IATA/ICAO	UN1193	Methyl Ethyl Ketone Solution	3	PG II	

Note: This product can be shipped as a limited quantity if the packaging meets the modal requirements.

Special precautions: Not applicable

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

15. Regulatory Information.**Safety, health, and environmental regulations specific for the product in question****US Regulations**

SARA Section 313 (40 CFR 372): This product contains the following toxic chemical(s) subject to reporting requirements of SARA 313:

1,2,4 Trimethylbenzene	95-63-6	1-10%
Methyl Methacrylate	80-62-6	<1

SARA Section 311/312 (40 CFR 370) Hazard Categories: Refer to Section 2 for the OSHA Hazard Classification.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product has a Reportable Quantity (RQ) of 7143 lbs. based on the RQ for methyl ethyl ketone of 5,000 lbs and on the RQ of methyl methacrylate of 1,000 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California: This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity: None

International Chemical Inventories

Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA inventory

16. Other Information.

- HMIS Rating: Health 2 Flammability 3 Reactivity 0
Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum

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