



SAFETY DATA SHEET
Regulation (EC) No 1907/2006 (REACH)

(Revision: 2/21/2019; Supersedes: 2/9/2015)

Section 1 Identification of the Substance/Preparation and of the Company/Undertaking.

1.1 Product Identifier

Product Type: Paint-On Die Hardener

Trade Names: P.D.Q. Die Hardener

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Paint-On Die Hardener

Uses Advised Against: For professional use only.

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer:

Whip Mix Corporation
361 Farmington Avenue
Louisville, Kentucky, USA 40209
Emergency Telephone Number: (502) 634-1451
Fax Number: (502) 634-4512

EU Importer

Whip Mix Europe GmbH
Wißstrasse 26 – 28
D – 44137 Dortmund
Germany
+49 (0) 231 / 567 70 8-0

1.4 Emergency Telephone Number

Transportation Emergencies: *CHEMTREC 1(800) 424-9300 (U.S. and Canada)*
International Calls: 1- 703-527-3887 (Collect calls accepted)

Other Product Information: www.whipmix.com

Section 2 Hazard Identification

2.1 Classification of the Substance or Mixture:

WHMIS/GHS/CLP Classification (1272/2008):

Health Hazards	Physical Hazards	Environmental 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)	Not Hazardous

2.2 Label Elements

Danger!



Contains methyl ethyl ketone
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bon container and receiving equipment.
 P241 Use explosion-proof equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P260 Avoid breathing mist, vapors or spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves and eye protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing..
 P333 + P313 If skin irritation or rash occurs: Get medical advice.
 P337 + P313 If eye irritation persists: Get medical attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P370 + P378 In case of fire: Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

2.3 Other Hazards: None

Section 3 Composition/Information on Ingredients.

<u>Substance</u>	<u>CAS No. / EC Number</u>	<u>%</u>	<u>CLP/GHS Classification (1272/2008)</u>
Methyl Ethyl Ketone	78-93-3 / 201-159-0	50-70	Flam Liq 2 H225 Eye Irrit 2 H319 STOT SE 3 H336
Methyl Methacrylate	80-62-6	0-1	Flam Liq 2 H225 Skin Irrit 2 H315 Skin Sens 1 H317 STOT SE 3 H335

See Section 16 for full text of GHS Classifications.

Section 4 First-Aid Measures.

4.1 Description of 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 persists consult a physician.
Skin: Wash skin thoroughly with soap and water. If irritation develops and persists, 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.

4.2 Most Important symptoms and effects, both acute and delayed: Causes eye irritation. Prolonged skin contact may cause irritation and drying of the skin. Inhalation of vapors or mists may cause respiratory irritation and central nervous system effects. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required under normal conditions of use.

Section 5 Fire-Fighting Measures.

5.1 Extinguishing Media: Use water fog, alcohol foam, carbon dioxide or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture: 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.

5.3 Advice for Fire-Fighters: Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

Section 6 Accidental Release Measures.

6.1 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.

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

6.3 Methods and Material 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!

6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

Section 7 Handling and Storage.

7.1 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.

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.

7.3 Specific end use(s):

Industrial uses: None identified

Professional uses: Paint-On Die Hardener

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters:

Methyl Ethyl Ketone	200 ppm TWA, 300 ppm STEL ACGIH TLV 200 ppm TWA, 300 ppm STEL Belgium OEL 200 ppm TWA, 300 ppm STEL France OEL 200 ppm TWA, 200 ppm STEL German MAK 590 mg/m ³ TWA, 900 mg/m ³ STEL Netherlands OEL 200 ppm TWA, 300 ppm STEL Ireland OEL 200 ppm TWA, 300 ppm STEL Italy OEL 200 ppm TWA, 300 ppm STEL Spain OEL 50 ppm TWA, 100 ppm STEL Sweden OEL 200 ppm TWA, 300 ppm STEL UK WEL
Methyl Methacrylate	50 ppm TWA, 100 ppm TWA ACGIH TLV (sensitizer) 50 ppm TWA, 100 ppm STEL Belgium OEL 50 ppm TWA, 100 ppm STEL France OEL 50 ppm TWA, 100 ppm STEL German MAK 100 ppm TWA Netherlands OEL

50 ppm TWA, 100 ppm STEL Ireland OEL 50 ppm TWA, 100 ppm STEL Italy OEL 50 ppm TWA, 100 ppm STEL Spain OEL 50 ppm TWA, 150 ppm STEL Sweden OEL 50 ppm TWA, 100 ppm STEL UK WEL
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Refer to local regulations for exposure limits not listed above.

8.2 Exposure Controls:

Recommended Monitoring Procedures: None.

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

Personal Protective Measurers

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 butyl rubber gloves. In the EU refer to EN 374.

Eye protection: Chemical safety goggles if splashing is possible. In the EU refer to EN 166.

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

Section 9 Physical and Chemical Properties.

9.1 Information on basic Physical and Chemical Properties

Appearance: Clear, light yellow liquid

Odor: Sweet odor.

Odor threshold: 0.27 (methyl ethyl ketone)

Melting point/freezing point: Not available

Flash point: 43°F (6.1°C)

Flammability (solid, gas): Not applicable

Flammable limits: LEL: 1.8%

Vapor pressure: 80 mmHg @ 20°C

Relative density: 0.95-1.0

Partition coefficient: n-octanol/water: Not available

Decomposition temperature: Not available

Explosive Properties: Not applicable

pH: Not available

Boiling point: 173.5°F (78.6°C)

Evaporation rate: >1 (butyl alcohol =1)

UEL: 11.5%

Vapor density (air = 1): >1

Solubility In Water: Appreciable

Auto-ignition temperature: Not available

Viscosity: Not applicable

Oxidizing Properties: Not applicable

9.2 Other Information: None available

Section 10 Stability and Reactivity.

10.1 Reactivity: None known.

10.2 Chemical stability: Stable

10.3 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.

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

10.5 Incompatible materials: Avoid oxidizing agents, inorganic acids, copper, hydrogen peroxide, chloroform and halogens.

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

Section 11 Toxicological Information.

11.1 Information on Toxicological Effects:

Potential Health Effects:**Eyes:** May cause irritation with redness, tearing and stinging.**Skin:** Prolonged contact may cause irritation and drying of the skin. Methyl methacrylate may cause an allergic skin reaction.**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.**Mutagenicity:** One of the components have been shown to cause mutagenic activity.**Reproductive Toxicity:** One of the components 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.**Section 12. Ecological Data.****12.1 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

12.2 Persistence and degradability: Methyl ethyl ketone is readily biodegradable.**12.3 Bioaccumulative potential:** Methyl ethyl ketone has a BCF of 3. This suggests the potential for bioconcentration in aquatic organisms is low.**12.4 Mobility in soil:** Methyl ethyl ketone is highly mobile in soil.**12.5 Results of PBT and vPvB assessment:** Components do not meet the criteria of PBT or vPvB.**12.6 Other adverse effects:** Not required.**Section 13. Disposal Considerations.****13.1 Waste Treatment Methods:** Dispose in accordance with all national and local regulations.**Section 14. Transport Information.**

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	UN1193	Ethyl Methyl Ketone Solution	3	PG II	
Canadian TDG	UN1193	Ethyl Methyl Ketone Solution	3	PG II	
EU ADR/RID	UN1193	Ethyl Methyl Ketone Solution	3	PG II	
IMDG	UN1193	Ethyl Methyl Ketone Solution	3	PG II	
IATA/ICAO	UN1193	Ethyl Methyl Ketone Solution	3	PG II	

14.6 Special precautions for User: Not applicable**14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.**Section 15 Regulatory Information.****15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****International Chemical Inventories****Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

Canadian Environmental Protection Act: All of the components of this product are listed on the Canadian Domestic Substances List (DSL) or exempt.

China: All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

Japan: All of the components in this product are listed on the Japanese New and Existing Chemicals Substances (ENCS) Inventory.

Korea: All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

Philippines: All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

Taiwan: All of the components of this product are listed on the Taiwan New and Existing Chemical Inventory (NECI).

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

16. Other Information.

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Flam Liq 2 Flammable Liquid Category 2

Skin Irrit. 2 Skin Irritation Category 2

Skin Sens. 1 Skin Sensitization Category 1

Eye Irrit. 2 Eye Irritation Category 2

STOT SE 3 Specific Target Organ Toxicity – Single Exposure Category 3

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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