



SAFETY DATA SHEET (SDS)

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : MRP00, MRP01, MRP05

DATE PRINTED: 08/01/17

PRODUCT USE/CLASS : BULK PAINTABLE FLUID

Plastic Process Equipment, Inc.
8303 Corporate Park Drive
Macedonia, Ohio 44056

Emergency Telephone: 1-800-535-5053
Product Information: 1-800-362-0706

SECTION II - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Harmful if swallowed.

GHS Classification In accordance with 29 CFR 1910.1200
Carcinogenicity

Symbol(s) of Product:



Signal Word: Warning

GHS HAZARD STATEMENTS

Aspiration hazard, category 4
Carcinogenicity, category 2

H302 Harmful if swallowed
H351 Suspected of causing cancer.

GHS PRECAUTIONARY STATEMENTS

Prevention:

- P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original container.
P240 Ground/bond container and receiving equipment.
P242+P271 Use only non-sparking tools. Use only outdoors or in a well-ventilated area.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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SECTION II - HAZARDS IDENTIFICATION (Con't)

Response:

P302+P352	IF ON SKIN: Wash with plenty of water.
P308+P314	If exposed or concerned get medical advice/attention if you feel unwell.
P321	Specific treatment (see first aid section on this label).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use appropriate method to extinguish.

Storage:

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal:

P501	Dispose of contents/container in accordance with local/regional /national/international regulations.
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SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance Name	:	Silicone Fluid
Chemical Nature	:	Organo-modified Silicone

Components	CAS No.#	Conc. (%)
See below*	-	-

*The specific chemical identities and/or exact percentages (concentration) of Plastic Process Equipment, Inc.'s Silicone Fluid MRP00, MRP01, MRP05 are trade secrets. This information is being withheld in accordance with OSHA's Hazard Communication Rule (29 CFR 1910.1200).

SECTION IV - FIRST AID MEASURES



First Aid - Eye Contact: Flush eyes immediately with water, at least 15 minutes or until irritation subsides. If irritation persists, consult a physician.

First Aid - Skin Contact: Wash contacted skin areas with soap and water. If irritation develops, consult a physician. Soaked clothing should be removed.

First Aid - Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

First Aid - Inhalation: Rescuers should put on appropriate protective gear. In all cases, remove source of exposure. Inhalation is not likely to occur except as a mist. Remove patient to fresh air and consult a physician. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration.

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SECTION V - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon Dioxide, Dry chemical, Alcohol-resistant Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: flammable liquid and vapor. Vapors/dust may form explosive mixture with air. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning. Closed container may explode under extreme heat. Can release vapors that form explosive mixtures at or above the flashpoint.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water spray to cool containers or protect personnel. Use with caution. This material may produce a floating fire hazard in extreme fire conditions. Avoid use of solid water streams. Water spray may spread oil fires. For large fires: Use foam (alcohol, polymer, or ordinary)

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Avoid runoff into storm sewers and ditches which lead to waterways. Use only non-combustible material for clean-up. Remove from surface by skimming or with suitable absorbents. Recover by pumping (use an explosion proof or hand pump). Use clean, non-sparking tools to collect absorbed materials. Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. If leak or spill has not ignited, use water spray to disperse the vapors. Do not touch or walk through spilled material. Stay upwind of spill. Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) A vapor suppressing foam may be used to reduce vapors. Evacuate unnecessary personnel.

Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

SECTION VII - HANDLING AND STORAGE



HANDLING: Use only in a well ventilated area. Affix proper warning labels on containers in accordance with ** 29 CFR 1910.1200 ** Wash thoroughly after handling. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Take precautionary measures against static discharge.

ADVICE ON SAFE HANDLING: Avoid inhalation of vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Keep away from water. Protect from moisture. Take care to prevent spills, waste and minimized release to the environment.

STORAGE: Containers can build up pressure if exposed to heat (fire). Keep away from heat, sparks, and flame. Keep container closed when not in use. Protect from direct sunlight. Store containers in a cool well ventilated place. Static Discharge, materials can accumulate static charges which can cause an incendiary electrical discharge. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks.

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with Occupational Exposure Limits

Ingredients	CAS Number	Value Type (Form of Exposure)	Control parameters / Permissible concentrations	Basis
			10 ppm	ACGIH
α -Methylstyrene	98-83-9	TWA	50 ppm, 240 mg/m ³	NIOSH REL
		ST	100 ppm, 485 mg/m ³	NIOSH REL
		C	100 ppm, 480 mg/m ³	OSHA Z-1

PERSONAL PROTECTION



RESPIRATORY PROTECTION: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.



SKIN PROTECTION: Wear impervious gloves to prevent contact with the skin. Wear protective gear as needed – apron, suit, boots. Wear long sleeves when contact is likely to occur.



EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.



OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.



HYGENIC PRACTICES: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid breathing vapors. Do not eat, drink, or smoke in areas where this material is used.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: Clear / Sl. Hazy	VAPOR DENSITY	: Not Determined
ODOR	: Sl. Styrene	VAPOR PRESSURE	: Not Determined
RELATIVE DENSITY	: 0.9763	ODOR THRESHOLD	: Not Determined
FREEZE POINT, °F	: Not Determined	VISCOSITY	: Not Determined
BOILING RANGE	: 260°F – 556°F	EXPLOSIVE LIMITS, VOL%	: Not Determined
SOLUBILITY IN H ₂ O	: Not soluble	POUNDS/GALLON	: 8.136
EVAPORATION RATE	: Not Determined	AUTO-IGNITION TEMP., °F	: Not Determined
PHYSICAL STATE	: Liquid	pH @ 100.0 %	: Not Applicable
Flash Point, Closed Cup	: >400°F		

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SECTION X - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Avoid exposure to moisture, friction, heat, sparks, flame and source of ignition.

INCOMPATIBILITY: Prevent contact with oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: During thermal decomposition formaldehyde may form.

POSSIBILITY OF HAZARDOUS REACTIONS: Use at elevated temperatures may form highly hazardous compounds. It can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.

SECTION XI - TOXICOLOGICAL PROPERTIES



Information on Toxicological Effects

Information on likely routes of exposure: Inhalation, Skin contact, & Ingestion.

Acute Toxicity	:	Not classified based on available information
Product	:	LD50 (rat)L > 15,000 mg/kg
Assessment	:	The substance or mixture has no acute oral toxicity.
Remarks	:	Based on test data.

Ingredients

α -Methylstyrene

Acute oral toxicity	:	LD50 (Rat)	:	4,900 mg/kg
Acute inhalation toxicity	:	LC50 (Rat)	:	22.85 mg/l
Exposure time	:	6 hours		
Test atmosphere	:	vapor		
Acute dermal toxicity	:	LD50 (Rabbit)	:	> 5,000 mg/kg

Skin corrosion/irritation : Not classified based on available information.

Product

Species	:	Rabbit
Result	:	No skin irritation
Remarks	:	Based on test data

Serious eye damage /eye irritation : Not classified based on available information.

Product

Species	:	Rabbit
Result	:	No eye irritation
Remarks	:	Based on test data

Ingredients:

α -Methylstyrene

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 7 days

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SECTION XI - TOXICOLOGICAL PROPERTIES (Con't)

Respiratory or skin sensitization

Skin sensitization : Not classified based on available information
 Respiratory sensitization : Not classified based on available information

Germ cell mutagenicity : Not classified based on available information

Ingredients:**α-Methylstyrene**

Genotoxicity in vitro

Test Type : Bacterial reverse mutation assay (AMES)
 Result : Negative

Genotoxicity in vitro

Test Type : Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
 Test species : Mouse
 Application Route : Inhalation
 Method : OECD Test Guideline 474
 Result : negative

Carcinogenicity : Suspected of causing cancer

Ingredients:**α-Methylstyrene**

Species : Rat
 Application Route : Inhalation (vapor)
 Exposure time : 105 weeks
 Method : OECD Test Guideline 451
 Result : Positive

Species : Mouse
 Application Route : Inhalation (vapor)
 Exposure time : 105 weeks
 Method : OECD Test Guideline 451
 Result : Positive
 Remarks : The mechanism or mode of action may not be relevant in humans

Carcinogenicity – Assessment : Limited evidence of carcinogenicity in animal studies

IARC : Group 2B: Possibly carcinogenic to humans
 α-Methylstyrene 98-83-9

ACGIH : Confirmed animal carcinogen with unknown relevance to humans
 α-Methylstyrene 98-83-9

OSHA : No ingredient of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP : No ingredient of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

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SECTION XI - TOXICOLOGICAL PROPERTIES (Con't)

Reproductive toxicity : Not classified based on available information

Ingredients:**α-Methylstyrene**

Effects on fertility

Test type: : Combined repeated dose toxicity study with the reproduction / developmental toxicity screening test.

Species : Rat

Application Route : Ingestion

Method : OECD Test Guideline 422

Result : Negative

Effects on fetal development

Test type: : Combined repeated dose toxicity study with the reproduction / developmental toxicity screening test.

Species : Rat

Application Route : Ingestion

Method : OECD Test Guideline 422

Result : Negative

STOT-single exposure : Not classified based on available information

Ingredients:**α-Methylstyrene**

Assessment : May cause respiratory irritation.

STOT-repeated exposure : Not classified based on available information

Repeated dose toxicity**Ingredients:****α-Methylstyrene**

Species : Rat

NOAEL : 40 mg/kg

LOAEL : 200 mg/kg

Application Route : Ingestion

Exposure time : 43 days

Method : OECD Test Guideline 422

Species : Rat

NOAEL : 1.45 mg/l

Application Route : Inhalation (vapor)

Exposure time : 90 days

Method : OECD Test Guideline 413

Aspiration toxicity : Not classified based on available information

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SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients: **α -Methylstyrene**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2.97 mg/l
 Exposure time : 96 hours
 Method : OECD Test Guideline 203

Toxicity to daphnia and other
 aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1.645 mg/l
 Exposure time : 48 hours
 Method : OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)) : 4.347 mg/l
 Exposure time : 72 hours
 Method : OECD Test Guideline 201

: NOEC (Desmodesmus subspicatus (green algae)) : 2.26 mg/l
 : 72 hours
 : OECD Test Guideline 201

Toxicity to fish (Chronic Toxicity) : NOEC (Danio rerio (zebra fish)) : 2.13 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

: NOEC (Daphnia magna (Water flea)) : 0.401 mg/l
 Exposure time : 21 days
 Method : OECD Test Guideline 211

Toxicity to bacteria

EC50 : > 2,000 mg/l
 Exposure time : 3 hours

Persistence and degradability : No data available

Bioaccumulative potential**Ingredients:** **α -Methylstyrene**

Bioaccumulation

Species : Cyprinus carpio (Carp)
 Bioconcentration factor (BCF) : 15 - 140
 Method : OECD Test Guideline 305C

Partition coefficient: n-octanol/water :

Mobility in soil : No data available

Other adverse effects : No data available

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SECTION XIII - DISPOSAL CONSIDERATIONS



Always dispose of any waste in accordance with all local, state, and federal regulations.

Disposal Methods

- Resource Conservation and Recovery Act (RCRA) : When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.
- Waste Code : D003 Reactivity
- Waste from residues : Dispose of in accordance with local regulations
- Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Incineration is the recommended disposal method, providing that available facility and such procedures are in compliance with FEDERAL, STATE, and LOCAL environmental pollution abatement regulations.

SECTION XIV - TRANSPORTATION INFORMATION

International Regulation

- UNRTDG** : Not regulated as a dangerous good
- IATA-DGR** : Materials that are packaged in vented containers are not allowed to be shipped by air. (Reference IATA Dangerous Goods Regulations 5.0.2.13.2)
- IMDG-Code** : Not regulated as a dangerous good
- US DOT** : Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- : Not applicable for product as supplied.

Domestic regulation

- 49 CFR** : Not regulated as a dangerous good

SECTION XV - REGULATORY INFORMATION
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EPCRA – Emergency Planning and Community Right-to-Know**CERCLA – Reportable Quantity:**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity:

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:

Chronic Health Hazard

SARA 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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SECTION XV - REGULATORY INFORMATION (Con't)

US State Regulations**Pennsylvania Right to Know**

Hexamethyl, methyl(2-phenylpropyl) siloxane 68952-01-2 90 – 100%

New Jersey Right To Know

Hexamethyl, methyl(2-phenylpropyl) siloxane 68952-01-2 90 – 100%

Impurities each <1% in Methyltetradecyl, methyl(2-phenylpropyl) siloxane Not Assigned 1 – 5 %

California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

α -Methylstyrene 98-83-9

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

α -Methylstyrene 98-83-9

The ingredients of this product are reported in the following inventories:

KECI	: All ingredients listed exempt or notified.
REACH	: All ingredients (pre-)registered or exempt.
TSCA	: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
AICS	: All ingredients listed or exempt.
IECSC	: All ingredients listed or exempt.
ENCS/ISHL	: All components are listed on ENCS/ISHL or exempted from inventory listing.
PICCS	: All ingredients listed or exempt.
DSL	: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
NZIoC	: All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL, (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines)

ROHS Declaration:

Tungsten	Not Detected	Tin	Not Detected
Tantalum	Not Detected	Gold	Not Detected
Hexavalent Chromium	Not Detected	Lead	Not Detected
Polybrominated biphenyls (PBB)	Not Detected	Cadmium	Not Detected
Polybrominated diphenyl ethers (PBDE)	Not Detected	Mercury	Not Detected

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SECTION XVI - OTHER INFORMATION

Revision Date:

08/01/17

Supersedes Date:

11/01/16

HMIS III:	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

0 = Not significant	1 = Slight
2 = Moderate	3 = High
4 = Extreme	* = Chronic

Legend: NA – Not Applicable
 NE – Not Established
 ND – Not Determined
 NI – No Information

Text for GHS Hazard Statements shown in Section 3 Describing each ingredient:

H302 Harmful if swallowed
 H351 Suspected of causing cancer.

Icons for GHS Pictograms shown in Section III describing each ingredient:

GHS07



GHS08



Disclaimer of Liability

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal to the product are beyond our control and may be beyond our knowledge. For this and other reasons, Plastic Process Equipment, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this information may not be applicable. This SDS replaces all previous versions for this product. Please discard all previous versions as they may contain changed or obsolete information.