

Mobile Paint Mfg. Co., Inc.

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910-1200)

SECTION 1 - PRODUCT AND MANUFACTURER IDENTIFICATION

Product Name: MOPOXY PLUS RED IRON OXIDE Product Code: 41-CR-1A

Mobile Paint Mfg. Co., Inc.
P.O. Box 717
4775 Hamilton Blvd.
Theodore, AL 36582

Emergency Phone: Chemtel, Inc
1-800-255-3924
+1-813-248-0585
(Chemtel 24 Hour Emergency Number)

Information Phone: 251-443-6110

Product Use: Paint

Not recommended for: Contact Manufacturer

SECTION 2 - HAZARD DATA

GHS Ratings:

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: $\geq 1.5 < 2.3$
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Carcinogen	1A	Known Human Carcinogen Based on human evidence

GHS Hazards

H226	Flammable liquid and vapour
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H350	May cause cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash hands and skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool

Signal Word: Danger

SECTION 3 - COMPOSITION / HAZARDOUS INGREDIENTS
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Chemical Name	CAS number	Weight Concentration %
ethyl benzene	100-41-4	2.00%
benzyl alcohol	100-51-6	1.00% - 5.00%
methyl isobutyl ketone	108-10-1	2.10%
methyl n-amyl ketone	110-43-0	10.00% - 20.00%
mica	12001-26-2	10.00% - 20.00%
iron oxide red	1309-37-1	1.00% - 5.00%
xylene, mixed isomers	1330-20-7	5.60%
magnesium silicate	14807-96-6	20.00% - 30.00%
crystalline silica (quartz)	14808-60-7	0.23%
bisphenol A diglycidyl ether polymer	25068-38-6	5.00% - 10.00%
n-butanol	71-36-3	2.30%

SECTION 4 - FIRST AID MEASURES

Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. Restore breathing if necessary and call a physician immediately. Treat symptomatically.

Eyes: Remove contact lenses if worn. Flush immediately with large amounts of water for at least 15 minutes. If symptoms persist, consult with a doctor for medical treatment.

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing. Consult a doctor if skin irritation continues.

Ingestion: Do not induce vomiting. Rinse out mouth and drink plenty of water to dilute. Never give anything by mouth to an unconscious person. Get medical help immediately.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 29 C (84 F)

LEL: 1.00

UEL: 12.00

Extinguishing media

Suitable extinguishing agents:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO₂, extinguishing powder or water spray may be effective.

For safety reasons unsuitable extinguishing agents: CAUTION! Use of water spray may be inefficient.

Unusual Fire and Explosion Hazards

Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Keep containers tightly closed. Isolate from heat, sparks, and open flame.

Protective equipment:

Full protective equipment including self-contained breathing apparatus should be used.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat.

Environmental precautions: Do not allow to enter sewers/ surface or ground water. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Dispose contaminated material as waste according to item 13. Do not flush with water or aqueous cleansing agents. Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

Handling Precautions:

Precautions for safe handling

Prevent formation of fine mist and vapor buildup during and after use. Avoid splashes or spray in enclosed areas. Use only in well ventilated areas. Do not get in eyes. Avoid skin contact. Can cause allergic respiratory reaction. Can cause allergic skin reaction. Prevent prolonged or repeated breathing of vapors or spray mist. Avoid breathing of sanding dust. Wash contaminated clothing thoroughly. Wash skin thoroughly with soap and water after handling. Close container after each use. Do not transfer this product to unlabeled containers. Do not handle until the manufacturer's safety precautions have been read and understood. Keep out of reach of children.

Information about protection against explosions and fires:

Keep ignition sources away. Do not smoke. Protect against electrostatic discharges.

Storage Requirements:

Do not store above 120 F. Store large quantities only in buildings designed to comply with OSHA 1910.106. Keep closures tight and container upright to prevent leakage. Do not store or use near heat, sparks or flame. Never use pressure to empty. Drum must not be washed out or used for other purposes. Drums of this material should be grounded when pouring.

Regulatory Requirements:

Consult NFPA Code. Use approved bonding and grounding procedures.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
ethyl benzene 100-41-4	TLV-TWA 100ppm PEL-TWA 100ppm STEL 125 ppm	TWA 20ppm	NIOSH REL TWA 100ppm NIOSH REL ST 125ppm
benzyl alcohol 100-51-6	Not Established	Not Established	Not Established

methyl isobutyl ketone 108-10-1	Z1 TWA 100ppm/ 410mg/m3 PO TWA 50ppm/ 205mg/m3 PO STEL 75ppm/ 300mg/m3	TWA 20 ppm STEL 75 ppm	NIOSH REL TWA 50ppm/205mg/m3 ST 75 ppm/300mg/m3
methyl n-amyl ketone 110-43-0	Z1 TWA 100ppm/465mg/m3 PO TWA 100ppm/465mg/m3	TWA 50 ppm	NIOSH REL TWA 100ppm/465mg/m3
mica 12001-26-2	Not Established	Not Established	Not Established
iron oxide red 1309-37-1	15 mg/m3 TWA total dust* 5 mg/m3 TWA respirable dust* *nuisance particulate	15 mg/m3 TWA total dust (as Fe) 5 mg/m3 TWA respirable dust (as Fe)	Not Established
xylene, mixed isomers 1330-20-7	PEL 100 ppm	TLV 100 ppm	TWA 435 mg/cu.m.
magnesium silicate 14807-96-6	PEL 15 mg/m3 inhalable dust	Not Established	Not Established
crystalline silica (quartz) 14808-60-7	PEL 0.1 mg/m3 TWA 0.1 mg/m3	TWA 0.025 mg/m3	Not Established
bisphenol A diglycidyl ether polymer 25068-38-6	Not Established	Not Established	Not Established
n-butanol 71-36-3	Z-1 TWA 100ppm/300mg/m3 PO C 50ppm/150mg/m3	TWA 20 ppm	NIOSH Ceiling LV - 50ppm

Engineering Controls:

Appropriate engineering controls include ventilations systems, eyewash stations and emergency showers.

Ventilation:

All application areas should be ventilated in accordance to OSHA regulation 29 CFR 1910.94, 1910.107, 1910.108. Remove decomposition products formed during welding or flame cutting on surface coated with this product. If baking, vent fumes.

Work / Hygienic Practices:

Wash skin thoroughly before breaks and meals and at the end of work period .

Respiratory Protection:

Use a NIOSH-approved respirator to prevent overexposure, when exposure exceeds occupational exposure limits (Section 8). Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors in compliance with 29 CFR 1910.134, with provision for mist removal if conditions so indicate. If isocyanate compounds are present in spray applications or other situations which may produce inhalation exposures, use a respirator that is recommended or approved for use in isocyanate-containing environments.

Eye Protection:

Safety eyewear including splashguards or side shields recommended.

Protective Gloves:

Recommended. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Other Protective Clothing or Equipment:

Use protective outerwear and prevent prolonged skin contact with contaminated clothing.

Contaminated Equipment:

Thoroughly clean all contaminated clothing and personal protection equipment.

SECTION 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Information on basic physical and chemical properties

<p>Appearance: Liquid</p> <p>Vapor Pressure: 5.2 mm Hg</p> <p>Vapor Density: 3.7</p>	<p>Odor: Typical solvent paint odor</p> <p>Odor threshold: No information available</p> <p>pH: No information available</p>
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<p>Specific Gravity: 1.37</p> <p>Freezing point: No information available</p> <p>Boiling range: 117°C</p> <p>Evaporation rate: slower than ether</p> <p>Partition coefficient (n- no data octanol/water):</p> <p>Decomposition temperature: No information available</p> <p>VOC - water/exempt (g/L) 334</p> <p>VOC emitted (g/L) 334</p>	<p>Melting point: No information available</p> <p>Solubility: No information available</p> <p>Flash point: 84 F, 29 C</p> <p>Flammability: No information available</p> <p>Autoignition temperature: N/A</p> <p>Viscosity: No information available</p> <p>VOC - water/exempt (lb/gal) 2.78</p> <p>VOC emitted (lb/gal) 2.78</p>
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SECTION 10 - STABILITY AND REACTIVITY

Reactivity - No data available

Chemical stability - Stable under recommended storage conditions.
 STABLE

Possibility of Hazardous Reactions - None under normal conditions of use.

Conditions to Avoid - Heat, sparks, open flame, static electricity, sources of ignition, elevated temperatures .

Incompatible Materials - Strong acids and alkali, strong oxidizing agents.

Incompatibility of Individual Components:
 No information available

Hazardous decomposition products - Carbon monoxide and carbon dioxide

Information for Individual Components:
 No information available
 Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity
 Inhalation Toxicity LC50: 95mg/L

Component Toxicity

100-41-4	ethyl benzene Oral LD50: 3,500 mg/kg (rat) Inhalation LC50: 4,000 ppm (rat)
108-10-1	methyl isobutyl ketone Oral LD50: 2,080 mg/kg (rat) Dermal LD50: 2,001 mg/kg (rat) Inhalation LC50: 10 mg/L (rat)
110-43-0	methyl n-amyl ketone Oral LD50: 1,670 mg/kg (rat) Dermal LD50: 2,001 mg/kg (rat) Inhalation LC50: 17 mg/L (rat)
1330-20-7	xylene, mixed isomers Oral LD50: 3,523 mg/kg (Rat, male) Dermal LD50: 1,100 mg/kg (Rabbit)
25068-38-6	bisphenol A diglycidyl ether polymer Dermal LD50: 2,000 mg/kg (rat)
71-36-3	n-butanol Oral LD50: 790 mg/kg (rat) Dermal LD50: 3,430 mg/kg (Rabbit, male)

CHRONIC HEALTH HAZARDS:
 Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Routes of Entry:

Inhalation	Skin Contact	Eye Contact	Ingestion
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Target Organs:

Eyes	Lungs	Central Nervous System	Skin
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Effects of Overexposure

Eye contact: Eye contact can cause severe irritation, redness, tearing, blurred vision. May be a sensitizer in some individuals.

Skin contact: Skin contact can cause moderate irritation, defatting, dermatitis. May be a sensitizer in some individuals.

Inhalation: Anesthetic, excessive inhalation can cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion, unconsciousness, coma and even asphyxiation.

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly even death.

Sensitization: No data available.

Mutagenicity: No data available.

Reproductive Toxicity: No data available.

Teratogenicity: No data available.

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Carcinogenicity:

For Mixture - No information available

For Components - The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

NOTE: Reference to **Crystalline Silica** and/or **Quartz** is based on exposure to unbound respirable particles and is not generally applicable to this product as supplied.

NOTE: Reference to **ethyl benzene** refers to IARC classification of ethyl benzene as possibly carcinogenic to humans (Group 2B) based on sufficient evidence in experimental animals but there is inadequate evidence that ethyl benzene causes cancer in humans.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
14808-60-7	crystalline silica (quartz)	0.23	crystalline silica (quartz): IARC working group classified as carcinogenic to humans (Group 1). NTP - Group 2A ACGIH - A2 suspected human carcinogen OSHA - listed
100-41-4	ethyl benzene	2.0	ethyl benzene: IARC: Group 2B - Possibly carcinogenic to humans ACGIH: Confirmed animal carcinogen with unknown relevance to humans OSHA: Not identified as a carcinogen or possible carcinogen NTP: Not identified as a known or anticipated carcinogen

SECTION 12 - ECOLOGICAL INFORMATION

Persistence and degradability - No information available.

Bioaccumulative potential - No information available.

Mobility in soil - No information available.

Ecotoxic effects - No information available.

Other adverse effects - No information available.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system . Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Component Ecotoxicity

benzyl alcohol	LC50 pimephales promelas: 460 mg/l @ 96h; EC50 daphnia magna (water flea): 230 mg/l @ 48h; IC50 pseudokirchneriella subcapitata (algae): >770 mg/l @ 72h
methyl isobutyl ketone	LC50 Danio rerio (zebra fish): 179 mg/l @ 96h; EC50 Daphnia magna (water flea) : >200 mg/l @ 48h; EC50 pseudokirchneriella subcapitata (green algae): 400 mg/l @ 96h
methyl n-amyl ketone	LC50 Pimephales promelas (fathead minnow): 131 mg/l @ 96h; EC50 Daphnia magna (water flea): >100 mg/l @ 48h; EC50 Selenastrum capricornutum (green algae): 98.2 mg/l @ 72h
iron oxide red	LC50 danio rerio: >50,000 mg/l @ 96h
xylene, mixed isomers	96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static] 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L
bisphenol A diglycidyl ether polymer	LC50 Fish: 1.3 mg/l @ 96h; EC50 daphnia sp.: 2.1 mg/l @ 48h; NOEC dsphnia magna: 0.3 mg/l @ 21d; LC50 greem a;gae" >11 mg/l @ 72h

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal methods:

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Residual materials should be treated as hazardous unless proven to be otherwise.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Empty Container Warning:

Emptied containers may contain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition. Do not reuse container.

SECTION 14 - TRANSPORT INFORMATION

Shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transportation does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment and compliance with applicable regulations is the sole responsibility of the person offering the product for transport .

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Paint	1263	III	3

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations specific for the substance/mixture .

California Proposition 65

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- 14808-60-7 crystalline silica (quartz)

100-41-4 ethyl benzene
108-10-1 methyl isobutyl ketone

CERCLA

This material, as supplied, contains the following chemicals regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) - 40 CFR 302

100-41-4 ethyl benzene
108-10-1 methyl isobutyl ketone
71-36-3 n-butanol
1330-20-7 xylene, mixed isomers

Hazardous Air Pollutants (HAPs) Content

Hazardous Air Pollutants subject to the provisions of the Clean Air Act, Title I Section 112 'National Emission Standards for Hazardous Air Pollutants'

100-41-4 ethyl benzene 2.0 %
108-10-1 methyl isobutyl ketone 2.1 %
1330-20-7 xylene, mixed isomers 5.6 %

Massachusetts RTK:

crystalline silica (quartz) 14808-60-7
ethyl benzene 100-41-4
methyl isobutyl ketone 108-10-1
n-butanol 71-36-3
iron oxide red 1309-37-1
xylene, mixed isomers 1330-20-7
methyl n-amyl ketone 110-43-0

New Jersey RTK:

crystalline silica (quartz) 14808-60-7
ethyl benzene 100-41-4
methyl isobutyl ketone 108-10-1
n-butanol 71-36-3
iron oxide red 1309-37-1
xylene, mixed isomers 1330-20-7
methyl n-amyl ketone 110-43-0

Pennsylvania RTK:

crystalline silica (quartz) 14808-60-7
ethyl benzene 100-41-4
methyl isobutyl ketone 108-10-1
n-butanol 71-36-3
iron oxide red 1309-37-1
xylene, mixed isomers 1330-20-7
methyl n-amyl ketone 110-43-0

Rhode Island Hazardous Substance List:

crystalline silica (quartz) 14808-60-7
ethyl benzene 100-41-4

SARA 313

This product contains a chemical or chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA 313).

100-41-4 ethyl benzene 2.0 %
108-10-1 methyl isobutyl ketone 2.1 %
71-36-3 n-butanol 2.3 %
1330-20-7 xylene, mixed isomers 5.6 %

TSCA

All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory unless they are listed here:

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="text"/>	2	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	<input type="text"/>	3	
PHYSICAL HAZARD	<input type="text"/>	0	
PERSONAL PROTECTION	<input type="text"/>		

DISCLAIMER: The information provided in this MSDS has been obtained from sources believed to be accurate and reliable. It is furnished without warranty of any kind, express or implied. Recipients should determine that the information is current and suitable for the protection of the environment and the health and safety of your employees and users of this product.

Date revised: 2015-09-29

Reviewer Revision 1

Date Prepared: 9/29/2015