

Section 1 Chemical Product and Company Identification

Product identifiers

Product name: Master Foundry-Kote

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Pattern Coating

Details of the supplier of the safety data sheet:

Freeman Manufacturing and Supply Company
 1101 Moore Road, Avon, OH 44011
 Phone (440) 934-1902
 FAX (440) 934-7200

HMIS	
H	2
F	3
R	0
PPE	
Sec. 8	

24 Hour Emergency Phone Number: (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

- Acute Toxicity, Inhalation, Category 4
- Reproductive Toxicity, Category 2
- Carcinogen, Category 2
- Eye Irritation, Category 2
- Skin Irritation, Category 2
- Flammable Liquid, Category 2
- Single Target Organ Toxicity, single exposure, Category 3
- Single Target Organ Toxicity, repeated exposure, Category 2

GHS Label elements, including precautionary statements



Signal word

Danger

Hazard statements

- Highly flammable liquid and vapor.
- Causes skin irritation.
- Causes serious eye irritation.
- Harmful if inhaled.
- May cause drowsiness or dizziness.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.

Section 2 Hazards Identification continued

Precautionary statements

Prevention

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Ground/bond container and receiving equipment. Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Keep container tightly closed when not in use.
- Do not breathe fumes or vapors.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.

Response

- If on skin: Immediately remove all contaminated clothing. Rinse skin with water/shower.
- If inhaled: Remove person to fresh air and call doctor/physician if not feeling well.
- If in eyes: Rinse continuously with water for at least 15 minutes. Remove contact lenses, if present and easy to do.
- If swallowed: Immediately call a poison control center or a physician. Do NOT induce vomiting.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.
- In case of fire, use alcohol resistant foam, dry chemical, carbon dioxide (CO₂) or dry sand to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents and container to an appropriate waste site in accordance with local and national regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS

48% of the mixture consists of ingredients of unknown toxicity.

Section 3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight %
Isobutyl Acetate	110-19-0	20-50
Xylene	1330-20-7	10-25
2-Propanol	67-63-0	2.5-10
PMA	108-65-6	2.5-10
Ethyl Benzene	100-41-4	2.5-10

Section 4 First Aid Measures

- If inhaled:** Move person into fresh air. If not breathing, give artificial respiration.
- In case of skin contact:** Wash off with soap and plenty of water. If skin irritation continues, consult a doctor.

Section 4 First Aid Measures continued

In case of eye contact: Remove contact lenses, if worn. Flush opened eyes thoroughly with water. If irritation persists, get medical assistance.
If swallowed: Call a physician or Poison Control Center immediately.

Section 5 Fire-Fighting Measures

Suitable extinguishing media: Use alcohol-resistant foam, dry chemical or carbon dioxide.
Unusual fire and explosion hazards: Remove all sources of ignition.
Hazardous combustion products possible:
Carbon oxides
Can form explosive vapor-air mixtures
Vapors are heavier than air and may spread along floors
Vapors may travel considerable distance to source of ignition and flash back
Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas. Remove all sources of ignition. Ensure adequate ventilation. Remove all non-essential people from the area. For personal protection see section 8.
Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up
Soak up with inert absorbent material and keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Precautions for safe handling
Use normal precautions when handling flammable materials. Do not breathe fumes or vapor. Do not allow material to contact skin. Provide appropriate exhaust ventilation.
Conditions for safe storage
Store at ambient temperatures in closed containers. Keep in a well-ventilated place. Store away from foodstuffs. This material can catch fire if overheated. Do not heat this material above the flash point. Keep away from flame and open electrical coils.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

Ingredient	OSHA		ACGIH	
	PEL	STEL	TWA	STEL
Isobutyl Acetate	150 ppm	Not established	150 ppm	Not established
Xylene	100 ppm	Not established	100 ppm	150 ppm
2-Propanol	400 ppm	Not established	200 ppm	400 ppm
PMA	None estab.	Not established	50 ppm	Not established
Ethyl Benzene	100 ppm	Not established	100 ppm	125 ppm

Section 8 Exposure Controls/Personal Protection continued

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.

Personal protective equipment

Eye/face protection

With product at ambient temperatures, use safety glasses equipped with side shields.

Skin protection

Hand Protection

With product at ambient temperatures, use disposable nitrile gloves. Contaminated gloves should be replaced.

Body Protection

Prevent skin contact when handling material.

Respiratory Protection

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist pre-filter should be used.

General Hygienic Practices

Avoid breathing vapor or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

Appearance	Clear heavy liquid
Odor	Characteristic solvent
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
VOC (g/L)	622
Boiling Range	118 - 485°F
Flash Point	44.6°F (7°C)
Evaporation Rate	7.70
Flammability (solid, gas)	No data available
Upper/lower flammability	No data available
Vapor Pressure	33.0 mmHg
Vapor Density	4.60
Relative density (g/cc)	0.972
Water Solubility	No data available
Coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

Section 10 Stability and Reactivity	
Reactivity	No data available
Chemical stability	Stable under recommended storage conditions
Conditions to avoid	Heat and open flames
Incompatible materials	Strong oxidizing agents
Hazardous decomposition	Carbon monoxide, carbon dioxide
Section 11 Toxicological Information	
Acute Oral Toxicity	Harmful; May cause lung damage if swallowed
Acute Inhalation Toxicity	Respiratory tract irritant
Acute Dermal Toxicity	No data available
Skin Corrosion/Irritation	Skin irritant
Serious Eye Damage/Eye Irritation	Eye irritant
Respiratory or Skin Sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
IARC	Xylene (1330-20-7) and 2-Propanol (67-63-0) are considered Class 3, not classifiable as to its carcinogenicity in humans. Ethyl Benzene (100-41-4) is considered a class 2B suspect human carcinogen.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	Blood, eyes, kidneys, liver, central nervous system, skin, respiratory system
Aspiration hazard	No data available
Section 12 Ecological Information	
Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT & vPvB assessment	No data available
Section 13 Disposal Considerations	
Use safety containers for disposal. Contact a licensed contractor for detailed recommendations. Follow applicable Federal, State, and local regulations.	

Section 14 Transport Information

DOT: Proper Shipping Name: Paint
Hazard Class: 3
UN /NA Number: 1263
Packing Group: II
Label: Flammable Liquid
Hazard SubClass: No Information
Response Guide Page: 128

Section 15 Regulatory Information

US Federal Regulations


RCRA Hazardous Waste Number (40 CFR 261.33): Not listed
 RCRA Hazardous Waste Classification (40 CFR 261): Not classified
 SARA 311/312 Codes: Fire Hazard, Acute Health Hazard, Chronic Health Hazard
 SARA 313 Toxic Chemical: Xylene (1330-20-7), Ethyl Benzene (100-41-4), Toluene (108-88-3)

Toxic Substance Control Act (TSCA)

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

US State Regulations

Chemical Name	CAS Number	NJ Right-to-Know	PA Right-to-Know
Phenolic / Rosin	Non-Hazardous	X	X
Nitrocellulose	9004-70-0	X	X
Diisononyl Phthalate	28553-12-0		X
Ethyl Benzene	100-41-4		
Toluene	108-88-3		

California Proposition 65:  **WARNING:** This product can expose you to chemicals including ethylbenzene and toluene, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16 Other Information

Disclaimer

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