

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name 188 KEL-PRO SATIN ALKYD DRY FOG FINISH 100 WHITE
Version # 01
Revision date 01-16-2011
CAS # Mixture
Product code 188-100
Product use Paint.
Manufacturer/Supplier Kelly-Moore Paint Co., Inc.
987 Commercial St., San Carlos, CA 94070
E-mail: rstetson@kellymoore.com
Telephone number: 1-800-874-4436
Contact Person: Robert Stetson
Emergency Emergency Telephone Number: 1-800-424-9300

2. Hazards Identification

Physical state Liquid.
Appearance Milky white to colored liquid.
Emergency overview WARNING
Combustible liquid and vapor.
Causes skin, eye and respiratory tract irritation.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects
Routes of exposure Inhalation. Eye contact. Skin contact.
Eyes Causes eye irritation.
Skin Causes skin irritation.
Inhalation Causes respiratory tract irritation. Prolonged inhalation may be harmful.
Ingestion Ingestion may cause irritation and malaise.
Target organs Central nervous system. Eyes. Skin. Respiratory tract.
Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.
Signs and symptoms Skin and eye irritation. Respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Mineral spirits	8032-32-4	<15
Distillates (petroleum), oxidized light	64742-98-9	<11
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	<11
Xylene	1330-20-7	<4
Vinyl toluene	25013-15-4	<1.5

Composition comments Components not listed are either non-hazardous or are below reportable limits. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if irritation develops or persists.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if any discomfort continues.
Ingestion	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.

Notes to physician

Treat symptomatically.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Combustible liquid and vapor.

Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Protective equipment and precautions for firefighters Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

Personal precautions Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8).

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment Eliminate all ignition sources. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Should not be released into the environment.

Large Spills: Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.

Storage Keep away from heat, sparks, and flame. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Vinyl toluene (25013-15-4)	STEL	100 ppm
	TWA	50 ppm
Xylene (1330-20-7)	STEL	150 ppm
	TWA	100 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Vinyl toluene (25013-15-4)	PEL	100 ppm 480 mg/m ³
Xylene (1330-20-7)	PEL	100 ppm 435 mg/m ³

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Wear approved safety goggles.

Skin protection Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory protection Use NIOSH certified, air purifying respirators with N-, P-, or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. protection provided by air-purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134. Consult a qualified industrial hygienist or Safety Professional for respirator selection guidance.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance Milky white to colored liquid.

Color Various.

Odor Slightly ammoniacal.

Odor threshold Not available.

Physical state Liquid.

Form Liquid.

pH Not available.

Melting point Not available.

Freezing point Not available.

Boiling point Not available.

Flash point 105 °F (40.6 °C)

Evaporation rate < 1 (n-BuAc=1)

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Vapor pressure Not available.

Vapor density > 1 Air = 1

Specific gravity Not available.

Solubility (water) Moderately soluble

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Contact with incompatible materials. Keep away from heat, sparks, and flame.

Incompatible materials Strong oxidizing agents. Strong acids.

Hazardous decomposition products Carbon oxides. Silicon oxides.

Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Acute effects Causes skin, eye and respiratory tract irritation. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Ingestion may cause irritation and malaise.

Sensitization Not a skin sensitizer.

Chronic effects Prolonged or repeated contact may dry skin and cause dermatitis. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Quartz (CAS 14808-60-7)	A2 Suspected human carcinogen.
Vinyl toluene (CAS 25013-15-4)	A4 Not classifiable as a human carcinogen.
Xylene (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (CAS 14808-60-7)	1 Carcinogenic to humans.
Vinyl toluene (CAS 25013-15-4)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

US NTP Report on Carcinogens: Known carcinogen

Quartz (CAS 14808-60-7)	Known carcinogen.
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Further information Components of the product may be absorbed into the body through the skin.

12. Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulation / Accumulation No data available.

Mobility in environmental media The product is miscible with water. May spread in water systems.

Partition coefficient (n-octanol/water) Not available.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 °F

US RCRA Hazardous Waste U List: Reference

Xylene (CAS 1330-20-7)	U239
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Disposal instructions Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, may be a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products Dispose in accordance with applicable federal, state, and local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1263
Proper shipping name	Paint
Hazard class	Combustible Liquid
Labels required	3

Additional information:

Special provisions B1, B52, IB3, T2, TP1
Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

IATA

Basic shipping requirements:

UN number 1263
Proper shipping name Paint
Hazard class 3
Packing group III
Additional information:
ERG code 3L

IMDG

Basic shipping requirements:

UN number 1263
Proper shipping name PAINT
Hazard class 3
Packing group III
EmS No. F-E, S-E*

15. Regulatory Information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

US TSCA Section 12(b) Export Notification: Export Notification requirement/De minimis concentration

Vinyl toluene (CAS 25013-15-4) 1.0 % One-Time Export Notification only.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Xylene (CAS 1330-20-7) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Xylene (CAS 1330-20-7) Listed.

CERCLA (Superfund) reportable quantity (lbs)

Xylene 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

Vinyl toluene (CAS 25013-15-4)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (CAS 14808-60-7)	Listed: October 1, 1988 Carcinogenic.
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US - Massachusetts RTK - Substance: Listed substance

Limestone (CAS 1317-65-3)	Listed.
Quartz (CAS 14808-60-7)	Listed.
Vinyl toluene (CAS 25013-15-4)	Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Xylene (CAS 1330-20-7)	500 LBS
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US - New Jersey RTK - Substances: Listed substance

Mineral spirits (CAS 8032-32-4)	Listed.
Quartz (CAS 14808-60-7)	Listed.
Vinyl toluene (CAS 25013-15-4)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Limestone (CAS 1317-65-3)	Listed.
Mineral spirits (CAS 8032-32-4)	Listed.
Quartz (CAS 14808-60-7)	Listed.
Vinyl toluene (CAS 25013-15-4)	Listed.
Xylene (CAS 1330-20-7)	Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
 Health: 2
 Flammability: 2
 Physical hazard: 1

NFPA ratings
 Health: 2
 Flammability: 2
 Instability: 1

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available. Additional information is given in the Material Safety Data Sheet.

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