

SKM Industries, Inc.

HMIS

Super Met-Al Marker (Yellow)

HEALTH	2
FIRE	3
REACTIVITY	0
PPE	B

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Super Met-Al Marker (Yellow)

Manufacturer Name: SKM Industries, Inc.

Address:

1012 Underwood Road
Olyphant, PA 18447

Business Phone: 570-383-3062

Product Description:

Product Class: Solvent based marker.

For information in North America, call: 570-383-3062

Chemtrec: For emergencies in the US, call CHEMTREC: 800-424-9300

Manufacturer MSDS Revision Date: 08/01/2003

Chemical Formula: SKM102

Signature of Preparer (Optional): Regulatory Dept.

HMIS

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: B

Product Codes:

04031, 04001, 1296-1324, 2000-3003, 01324 03003, 03015

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Percent	
Xylene	1330-20-7	(Opt.): 40 - 50%	

OSHA PEL TWA: 100 ppm

ACGIH TLV TWA: 100 ppm

Other Exposure Guidelines:

No data

--	--	--	--

Chemical Name	CAS#	Percent	
Titanium Dioxide	13463-67-7	(Opt.): 20 - 30%	

OSHA PEL TWA: 10 mg/m³

ACGIH TLV TWA: 10 mg/m³

Other Exposure Guidelines:

Nuisance dust

Chemical Name	CAS#	Percent	
Hydrocarbon Resin	68131-77-1	(Opt.): 10 - 20%	

OSHA PEL TWA: 15 mg/m³

ACGIH TLV TWA: 10 mg/m³

Other Exposure Guidelines:

Nuisance dust

Chemical Name	CAS#	Percent	
Ethyl Benzene	100-41-4	(Opt.): 1 - 10%	

OSHA PEL TWA: 100 ppm

ACGIH TLV TWA: 100 ppm

Other Exposure Guidelines:

No data

Chemical Name	CAS#	Percent	
Hydrocarbon Resin	9003-55-8	(Opt.): 1 - 10%	

OSHA PEL TWA: 15 mg/m³

ACGIH TLV TWA: 10 mg/m³

Other Exposure Guidelines:

Nuisance dust

Chemical Name	CAS#	Percent	
Pigment Yellow	13515-40-7	(Opt.): 1 - 10%	

OSHA PEL TWA: 5 mg/m³

ACGIH TLV TWA: No data

Other Exposure Guidelines:

Nuisance dust

Chemical Name	CAS#	Percent	
C.I. Solvent Yellow 56	2481-94-9	(Opt.): 1 - 10%	

OSHA PEL TWA: No data

ACGIH TLV TWA: No data

Other Exposure Guidelines:

Nuisance dust

Nuisance dust as free dust only, not as bound in paint or ink.



TOP

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:

Warning! Flammable liquid and vapor. Keep away from heat sparks and flames. May cause eye, skin and respiratory tract irritation. If swallowed do not induce vomiting. Get immediate medical attention.

Physical State:

Opaque thin viscosity liquid

Color: Yellow

Odor: Aromatic odor

Applies to all ingredients:

Potential Health Effects:

Eye Contact:

Liquid is moderately irritating to the eyes.

Skin Contact:

Liquid is mildly irritating to the skin.

Inhalation:

High concentration of vapors may produce irritation of the respiratory tract, headache, dizziness, and nausea.

Ingestion:

Ingestion of liquid may cause vomiting.

Chronic Health Effects:

Prolonged or repeated contact may cause skin sensitization or dermatitis. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.

Ethyl Benzene:

Carcinogenicity:

IARC (International Agency for Research of Cancer) has classified Ethyl Benzene as a possible human carcinogen (2B).



TOP

SECTION 4 : FIRST AID MEASURES

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact:

Flush skin with plenty of water. Remove contaminated clothing and shoes.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion:

If large quantities of this material are swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.



TOP

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point:

79 deg F

Upper Flammable or Explosive Limit:

12.3

Lower Flammable or Explosive Limit:

1.9

Extinguishing Media:

Use water fog, foam, dry chemical or CO2. Use water spray to cool fire-exposed containers and to protect personnel.

Fire Fighting Instructions:

Keep containers cool and vapors down with water spray. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire Hazards:

Vapors are heavier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source.



TOP

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Large Spill:

Evacuate area of unprotected personnel. Eliminate all ignition sources. Stop spill at source if safe to do so. Handling equipment must be grounded to prevent sparking. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Dispose of properly in compliance with federal, state, and local regulations.

Small Spill:

Absorb liquid with non-combustible floor absorbent and place in non-leaking container; seal properly and dispose of properly in compliance with federal, state, and local regulations.



TOP

SECTION 7 : HANDLING and STORAGE

Handling:

Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do

not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks, flames, static electricity, or other sources of ignition. Many hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "autoignition" or ignition temperatures. Ignition temperatures decrease with increasing vapor volume and vapor volume and vapor/air contact time, and are influenced by pressure changes. Ignition of organic chemical vapors may occur at typical elevated-temperature process conditions, especially in processes operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Storage:

Keep away from heat, sparks and open flames. Keep out of reach of children. Keep container tightly sealed when not in use. Store in cool, well-ventilated place away from incompatible materials. Information on this Material Safety Data Sheets refers to ink used in pens and markers, however, it applies to these inks in bulk. The inks are contained in capillary or valve reservoirs and will not spill or leak under normal conditions.

Hygiene Practices:

Follow label instructions. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.



TOP

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Ventilation System:

Special: None

Mechanical (General): Yes

Local Exhaust:

Not usually needed

Other Exhaust Information:

None

Hand Protection Description:

Protective Gloves – Chemical resistant gloves if skin contact is possible (consult your safety equipment supplier).

Eye/Face Protection:

Not normally required if used as intended. Wear chemical splash goggles in compliance with OSHA regulation if splashing is possible.

Protective Clothing/Body Protection:

Not usually necessary. For bulk material, if direct contact is possible, wear apron, boots, face shield, etc. as needed.

Respiratory Protection:

(Specify Type) - Not usually necessary. Use with adequate ventilation. Use NIOSH/MSHA approved respirator if PELs or TLVs are exceeded.

Work/Hygienic Practices:

Follow label instructions. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.



TOP

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

Opaque thin viscosity liquid

Color:

Yellow

Odor:

Aromatic odor

pH:

No Data

Vapor Pressure:

(mm-Hg @ 70 deg F): No Data

Vapor Density:

(AIR = 1): Greater than one (1)

Boiling Point:

282 to 286 deg F

Melting Point:

No Data

Solubility:

In Water: Negligible

Specific Gravity:

(H₂O = 1): > 1 @ 70 deg F

Evaporation Point:

(Butyl Acetate = 1): Less than one (1)

Flashpoint:

79 deg F

Upper Flammable Explosive Limit:

12.3

Lower Flammable Explosive Limit:

1.9



TOP

SECTION 10 : STABILITY AND REACTIVITY

Chemical Stability:

Stable

Conditions to Avoid:

None known.

Incompatibilities with Other Materials:

(Materials to Avoid) - Strong oxidizing and reducing agents, strong alkalis and strong acids.

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid - No data

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, smoke, soot and various organic oxidation by-products.



TOP

SECTION 11 : TOXICOLOGICAL INFORMATION**Xylene:**

Skin Effects:

Dermal LD50 (Rabbit): No data

Ingestion Effects:

Oral LD50 (Rat): 4300 mg/kg

Inhalation Effects:

Inhalation LC50 (Rat): No data

Hydrocarbon Resin:

Skin Effects:

Dermal LD50 (Rabbit): No data

Ingestion Effects:

Oral LD50 (Rat): > 500 mg/kg

Inhalation Effects:

Inhalation LC50 (Rat): No data

C.I. Solvent Yellow 56:

Skin Effects:

Dermal LD50 (Rabbit): No data

Ingestion Effects:

Oral LD50 (Rat): 400 mg/kg

Inhalation Effects:

Inhalation LC50 (Rat): No data

Please refer to Section 3 for available information on potential health effects.



TOP

SECTION 12 : ECOLOGICAL INFORMATION

Ecological Paragraph:

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.



TOP

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose of in accordance with all applicable local, state and federal regulations.



TOP

SECTION 14 : TRANSPORT INFORMATION

Transportation Information:

(Not meant to be all inclusive)

DOT Shipping Information:

Domestic Highway (Containers < 1 Quart are ORM-D)

Proper Shipping Name: Paint

Hazard Class/Subsidiary Hazard: 3

UN/NA No.: UN1263

Packing Group: II

Label Required: Flammable Liquid (3)

Domestic Air Shipments (Pens)

Proper Shipping Name: Consumer Commodity

Hazard Class/Subsidiary Hazard: 9

UN/NA No.: I.D. 8000

Packing Group: None

Label Required: Class 9

**SECTION 15 : REGULATORY INFORMATION****Applies to All Ingredients:**

OSHA 29 CFR 1200:

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

State:

CALIFORNIA PROPOSITION 65: This product is not known to contain any material listed under California's Proposition 65.

Canada WHMIS:

Not WHMIS controlled (pens)

Bulk: Class B2, D2A

Carcinogenicity:

NTP: No

IARC Monographs: 2B

OSHA Regulated: No

(Not meant to be all inclusive - selected regulations represented)

Xylene:

Section 313 Toxic Release Form:

This product contains Xylene (1330-20-7) which is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.

Ethyl Benzene:

Section 313 Toxic Release Form:

This product contains Ethyl Benzene (100-41-4) which is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.



SECTION 16 : ADDITIONAL INFORMATION

HMIS:

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: B

MSDS Revision Date:

08/01/2003

MSDS Author:

Signature of Preparer (Optional): Regulatory Dept.

Disclaimer:

WARNING! The use of this product is beyond the control of the manufacturer and distributor; therefore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The user must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. The manufacturer and distributor warrant only that this product meets the specifications for such product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE PROPER USE OF THIS PRODUCT. The sole and exclusive remedy against the manufacturer and distributor for breach of warranty shall be reimbursement of the purchase price of the product in the event that a defective condition of the product shall be found to exist. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

Copyright© 1996-2006 Actio Software Corporation. www.msdsvault.com All Rights Reserved.