



Safety Data Sheet

Issuing Date: February 9, 2015

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1. Identification of the Substance/Preparation and the Company Undertaking

GHS Product Identifier

Product Name Pump Action Fiber Tip Super Met-Al High Temperature Marker-Colored

Other Means of Identification

Part Number 04501-Black, 04501-Silver, 04501-White, 04501-Yellow

Formula Code Solvent Based marker

Temperature Range up to 2000°F (1093°C)

Synonyms none

Recommended use of the chemical and restrictions on use

Recommended Use Marker

Uses Advised Against No information available

Supplier's Details

Supplier Address

SKM Industries Inc.
1012 Underwood Road
Olyphant, Pa 18447
Telephone: 570-383-3062

Emergency Telephone Number

Chemtrec US 800-424-9300 International 703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communications Standard 2012 (29 CFR 1910.1200)

Contains: ethyl benzene, Trimethyl benzene and Xylene:

Flammable Liquid Category 3

Skin Irritation Category 2

Inhalation Category 3

Eye Irritation Category 2A

Specific target organ systemic toxicity –repeated exposure

Acute Aquatic Toxicity Category 2

Acute Toxicity Category 5 Oral

Acute Toxicity Category 4 Inhalation

GHS Label Elements, including precautionary statements

Emergency Overview

Signal Word – Danger

Hazard Statements –

Skin irritation

Serious Eye irritation

Respiratory irritation

May be harmful if swallowed

Harmful if inhaled

Flammable liquid and vapour

May cause damage to organs through prolonged or repeated exposure

Toxic to aquatic life



Appearance – Opaque, varies white or colored

Physical state- liquid

Odor – Petroleum Odor

Precautionary Statements

Prevention

Do not handle until all safety precautions have been read and understood

Keep container tightly closed

Avoid breathing dust/vapors/fumes

Wash face and hands and any exposed skin thoroughly after handling

Wear protective gloves/clothing/eye protection/face protection

Use personal protection as required

Keep away from heat, sparks, open flame

Use in a well-ventilated area

Avoid release to the environment

General Advice

If exposed or concerned: get medical attention/advice

ACUTE HAZARD: At high concentration, dizziness and unconsciousness may occur.

CAUTION: Contains heptane. Harmful or fatal if swallowed. Direct contact may cause skin or eye irritation.

KEEP OUT OF REACH OF CHILDREN.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. If irritation persists seek medical attention/advice.

Skin

Remove contaminated clothing. Rinse skin with water/shower. If irritation persists seek medical attention/advice.

Inhalation

Remove patient to fresh air and keep at rest in a comfortable position for breathing. Seek medical attention immediately. Deliberate concentration and inhalation can be harmful or fatal.

Ingestion

If accidentally swallowed seek medical attention immediately. Do not induce vomiting.

Fire

Use CO₂, dry chemical, alcohol-resistant foam

Spills and Leaks

Contain and collect spillage

Storage

Store in dry well ventilated place. Keep tightly sealed. Prevent unauthorized access.

Disposal

Dispose of contents/container in approved waste disposal plant

Hazard not Otherwise Classified (HNOC)

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 is Group 2B possible carcinogenic to humans. IARC (International Agency for Research of Cancer) has classified Carbon Black and Titanium Dioxide as a possible human carcinogen (2B).

3. COMPOSITION / INFORMATION ON INGREDIENTS
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Chemical Name	CAS -No	Weight %	Trade Secret
Aromatic Hydrocarbon	64742-95-6	30 - 60	*
Xylene	1330-20-7	1 - 20	*
Ethyl Benzene	100-41-4	1 - 10	*
1,2,4, Trimethyl Benzene	95-63-6	1 - 10	*
May contain one or more of the following			
Titanium Dioxide	13463-67-7	20 - 30	*
Zinc Borosilicate Frit	65997-18-4	20 - 30	*
Pigment Yellow 34	1344-37-2	15 - 25	*
C. I. Pigment Black 27	68186-97-0	10 - 20	*
Carbon Black	1333-86-4	1 - 10	*
Aluminum	749-90-5	Not available	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice	In case of doubt, or when symptoms persist, seek medical attention. Do not leave victim unattended.
Eye Contact	Immediately flush eyes with plenty of water for at least fifteen (15) minutes. Remove contact lenses. Get medical attention immediately.
Skin Contact	Flush skin with plenty of water. Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleanser.
Inhalation:	Remove to fresh air, keep patient warm and at rest. If breathing is irregular seek medical advice. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Ingestion	Seek medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Protection of First Aiders Use personal protection equipment.

Most important symptoms/effects, acute and delayed

Most important symptoms/effects Drowsiness, blurred vision if concentrated and inhaled.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

FLASH POINT: 108°F (TCC) ASTM D56 Note: Minimum
FLAMMABLE LIMITS: LEL 1.9 UEL 12.6 Note: Approximate

Suitable Extinguishing Media

Dry chemical, carbon dioxide, alcohol resistant foam. For large fires, use foam. Shut off flow and allow to burn out.

Unsuitable extinguishing media High volume water jet

Specific Hazards arising from the chemical Vapors explosive if collected. Vapors are heavier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source. Do not allow run off from fire-fighting to run into drains or water courses. If run-off occurs, notify proper authorities.

Protective Equipment and Precautions for Firefighters

Wear appropriate self-contained breathing apparatus MSHA/NIOSH (approved or equivalent) and full protective gear. Cool closed containers exposed to fire with water spray. Avoid inhalation of material or combustion by-products; stay upwind. **Unusual Fire and Explosion Hazards** – Vapors are heavier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid breathing vapours. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions Avoid release into the environment. Do not allow to enter drains or watercourses. If the product contaminates rivers, lakes or drains, inform respective authorities.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Contain the spillage with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth to soak up the product and place in a suitable container for disposal in accordance with the waste regulations. 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.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid skin and eye contact. Avoid the inhalation of vapor and mist. Keep away from open flame and sources of ignition. 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 "auto ignition" 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.

Conditions for safe storage, including any incompatibilities

Storage Keep away for open flame, hot surfaces and sources of ignition. Keep containers tightly closed. Observe label precautions. Store between 5-25° C in a dry, well ventilated place. Prevent unauthorized access.

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. 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.

Incompatible products Strong oxidizing and reducing agents, strong alkalis and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Hazardous Components	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended
Aromatic Hydrocarbon	64742-95-6	TWA 100 ppm	TWA 100 ppm	No data
Xylene	1330-20-7	TWA 100 ppm	TWA 100 ppm	No data
Ethyl Benzene	100-41-4	TWA 100 ppm	TWA 100 ppm	No data
1,2,4, Trimethyl Benzene	95-63-6	TWA 100 ppm	TWA 100 ppm	No data
May contain one or more of the following				
Titanium Dioxide	13463-67-7	TWA 10 mg/m3	TWA 10 mg/m3	Nuisance dust*
Zinc Borosilicate Frit	65997-18-4	TWA 10 mg/m3	TWA 10 mg/m3	Nuisance dust*
Pigment Yellow 34	1344-37-2	TWA .05 mg/m3 as Lead	TWA .05 mg/m3 as Lead and 0.012mg/m3 as Chromium	Nuisance dust*
C. I. Pigment Black 27	68186-97-0	TWA 0.1 mg/m3	TWA 0.5 mg/m3	Nuisance dust*
Carbon Black	1333-86-4	TWA 3.5 mg/m3	TWA 3.5 mg/m3	Nuisance dust*
Aluminum	749-90-5	PEL 15 mg/m3 Total	TWA 1 mg/m3	Total Dust

		Dust PEL 5 mg.m3 Respirable Dust	Respirable fraction	Respirable Dust
*Nuisance dust as free dust only, not as bound in paint or ink.				

Appropriate engineering controls

Engineering Measures Showers, eyewash stations, ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face protection None under normal use conditions. Avoid eye contact. Wear chemical splash goggles in compliance with OSHA regulation if splashing is possible

Skin and body Protection None under normal use conditions. Avoid repeated or prolonged contact with skin. Wear impervious gloves if needed to prevent possible skin irritation.

Respiratory Protection None under normal use conditions. Use with adequate ventilation. If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn

Hygiene Measures Use in a well-ventilated area. When using do not eat, drink, or smoke. Provide regular cleaning of equipment, work areas and clothing. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<u>Property</u>	<u>Value</u>	
Boiling Point:	318-338°F	
Specific Gravity (H2O = 1)	>1 @70°F	
Vapor Pressure:	no data	
Melting Point:	no data	
Vapor Density (Air=1)	>1	
Evaporation (BA=1)	<1	
Solubility in Water:	negligible	
Appearance and Order:	opaque colored thin viscosity liquid	
Order	Aromatic odor	
VOC: COLOR	GRAMS PER LITER	% BY WEIGHT
Black	642	57.63
White	666	52.35
Yellow	700	58.69

10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical Stability	Stable under normal storage and handling conditions
Possibility of Hazardous reactions	None under normal use
Hazardous Polymerization	Will not occur

Conditions to Avoid	Heat, open flame, sparks, and sources of ignition
Incompatible Materials	Strong oxidizing and reducing agents, strong alkalis and strong acids
Hazardous Decomposition Products	No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information There is no data available on the product itself.

12. ECOLOGICAL INFORMATION

Ecotoxicity There is no data available on the product itself

Ecotoxicity: Components of this product have been identified as having potential environmental

Exotoxicological Data: Aluminum 7429-90-5 –LC50 Rainbow trout, Donaldson trout, 0.12 mg/l 96.00 hours

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with all applicable local, state and federal regulations. Do not allow to enter into drains, water courses or the soil.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOMESTIC HIGHWAY (Containers < 1 Quart are ORM-D)
 PROPER SHIPPING NAME: Ink/Paint
 HAZARD CLASS/SUBSIDIARY HAZARD: 3
 UN/NA NO. UN1263
 PACKING GROUP: III
 LABEL REQUIRED: Combustible Liquid
 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

15. Regulatory Information

U.S. Federal Regulations

Carcinogenicity: NTP? No IARC Monographs? 2B OSHA Regulated? No

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

SECTION 313: This product contains Aluminum (7429-90-5), Xylene (1330-20-7), Ethyl Benzene (100-41-4) Pigment Yellow34(1344-37-2), CI Pigment Black 27(68186-97-0), and 1,2,4,TriMethyl Benzene (95-63-6) which are 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.

STATE REGULATIONS: CALIFORNIA PROPOSITION 65: -This product contains a chemical known to the State of California to cause cancer. Benzene, Ethyl benzene. This product contains chemicals known to the State of California to cause birth defects or other reproductive harm.

Pennsylvania RTK: Hazardous Substance. Listed Substance. Aluminum 7429-90-5 Listed

INTERNATIONAL REGULATIONS: CANADIAN WHMIS: Not WHMIS controlled (pens) Bulk: Class B2, D2A

Canada This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

WHMIS Classification: Not Controlled.

NSNR Status (New Substance) All ingredients in the product are listed, as required, on Canada's Domestic

Notifications Regulations: Substances List (DSL).

NPRI Substances (National

Pollutant Release Inventory): Xylene, 1,2,4-Trimethylbenzene

Risk Phrases: None

Safety Phrases: S2: Keep out of reach of children.

OTHERS This product does not contain chemicals known to deplete the ozone layer.

16. OTHER INFORMATION

Health Hazard 1

Flammability 2

Reactivity 0

Personal Protection B

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End of Safety Data Sheet