Product Safety Data Sheet

Paint Markers

Document No.: **REG003932**
Revision Date: **7/12/2024**
Revision: **A US/CA**

Section 1: Identification

Product Name:	Klein Tools Skribe Paint Markers
Basic Model Numbers	86304 (Black), 86344 (White), 86354 (Yellow)
Recommended Use	Industrial Writing and Marking

Section 2: Hazard(s) Identification

These Paint markers are not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). They are considered "Articles," and "consumer products," as defined by the Occupational Safety and Health Administration's Hazard Communication Standard.

An 'article' is defined in Section 1910.1200(c) "as a manufactured item other than a fluid or particle:

- Which is formed to a specific shape or design during manufacture;
- Which has end use function(s) dependent in whole or in part on its shape or design during end use; and
- Which, under normal conditions of use, does not release other than very small (minute or trace) amounts of a hazardous chemical and does not pose a physical hazard or health risk to employees."

Section 1910.1200(b)(6)(ix) states that:

> "Any consumer product or hazardous substance, as those terms are defined in the Consumer Product Safety Act (15 U.S.C. 2051 et seq.) and Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.) respectively, where the employer can show that it is used in the workplace for the purpose intended by the chemical manufacturer or importer of the product, and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the purpose intended."

As such, these products are exempted from the requirements to publish Safety Data Sheets.

The hazards indicated below, and information in the following sections cover the abnormal situation in which a marker leaks or is ruptured.

Signal Word	Danger
Hazard Statements	H225 - Highly flammable liquid and vapor. H336 - May cause drowsiness or dizziness.
Precautionary Statements	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area.

	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a poison center/doctor if you feel unwell. P370+P378 - In case of fire: Use CO2, powder or water spray to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients

Chemical characterization: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.

Ingredient Name	CAS Number	Percentage
n-butyl acetate	123-86-4	≤65.0%
Ethanol	64-17-5	≤15.0%
Trade Secret Resin	-	≤15.0%
(White) Titanium Dioxide	13463-67-7	≤25.0%
(Black) Carbon Black	1333-86-4	≤10%
(Yellow) Pigment Yellow 14	5468-75-7	≤5%

Section 4 : First Aid Measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Rinse out mouth with water. Never give anything by mouth to an unconscious person. Seek medical treatment.

Section 5 : Fire-Fighting Measures

Suitable extinguishing agents: Use agent suitable for the surrounding fire. CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment and precautions for fire-fighters: Protective equipment: Wear respiratory protective device. (SCBA), Wear fully protective suit

Section 6 : Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
Use respiratory protective device against the effects of fumes/dust/aerosol. Avoid contact with eyes.
Avoid contact with skin.

Environmental precautions:

Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose contaminated material as waste according to section 13.

Section 7 : Handling and Storage

Precautions for safe handling:

Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Avoid contact with eyes and skin.
For the general occupational hygienic measures refer to Section 8.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Store away from foodstuffs.
Further information about storage conditions:

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

Section 8 : Exposure Controls / Personal Protection

Control parameters

Components with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

PEL (USA)	Long-term value: 710 mg/m³, 150 ppm
REL (USA)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV (USA)	Short-term value: 150 ppm Long-term value: 50 ppm

64-17-5 ethanol

PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
TLV (USA)	Short-term value: 1000 ppm A3

1333-86-4 carbon black

PEL (USA)	3.5 mg/m³
REL (USA)	3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C

TLV (USA) 3* mg/m³
*inhalable fraction, A3

Regulatory information
PEL (USA): Guide to Occupational Exposure Values (OSHA PELs) REL (USA): Guide to Occupational Exposure Values (NIOSH RELs) TLV (USA): Guide to Occupational Exposure Values (TLV)
Additional information: The lists that were valid during the creation were used as basis.
Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:

Appropriate engineering controls:
Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
See Section 7 for information about design of technical facilities.

Personal protective equipment

Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves 

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles 

Section 9 : Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance:

Form	Liquid
Color	Black, White, or Yellow

Odor	Sweet, Alcoholic
Odor Threshold	Not Available
pH Value	Not Available
Change in condition	
Melting Point/Range	Not Available
Freezing Point	Not Available
Boiling Point/Range	Not Available
Flash Point	Not Available
Flammability (solid, gaseous)	Not Available
Auto-Ignition Temperature	Not Available
Explosion limits	
Upper	Not Available
Lower	Not Available
Vapor Pressure	Not Available
Density	Not Available
Relative Density	Not Available
Vapor Density	Not Available
Evaporation Rate	Not Available
Solubility/Miscibility in Water	Not Available
Partition Coefficient (n-octonal/water)	Not Available
Viscosity	
Dynamic	Not Available
Kinematic	Not Available
Other Information	Not Available

Section 10 : Stability and Reactivity

Reactivity: No decomposition if used according to specifications.
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known.

Section 11 : Toxicological Information

Acute toxicity

LD/LC50 values that are relevant for classification

123-86-4 n-butyl acetate

Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	>21 mg/l (rat)

64-17-5 ethanol

Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4h	20,000 mg/l (rat)

13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

5468-75-7 Pigment Yellow 14

Oral	LD50	>5,000 mg/kg (rat)

Primary irritant effect

Skin corrosion/irritation: Irritating effect possible.

Serious eye damage/irritation: Irritating effect possible.

Respiratory or skin sensitization: Sensitization possible.

Additional toxicological information:

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide: 2B 64-17-5 ethanol: 1

1333-86-4 carbon black: 2B

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Section 12 : Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Other adverse effects: No further relevant information available.

Section 13 : Disposal Considerations

Waste Treatment Methods Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

Section 14 : Transportation Information

Marker:

	DOT	IMDG	IATA	TDG	Mexico
UN Number	Not Regulated				
Proper Shipping Name	-				
Transport Hazard Classes	-				
Packing Group	-				
Environmental hazards	No				
Additional Information	-				
Special precautions for user	-				

Section 15 : Regulatory Information

These Markers are compliant with LHAMA (Labeling of Hazardous Art Materials Act) : Conforms to ASTM D-4236

Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
Sara Section 355 (extremely hazardous substances):
None of the ingredients are listed.
Sara Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.
TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
Proposition 65
Chemicals known to cause cancer: 13463-67-7 titanium dioxide, 1333-86-4 carbon black
Chemicals known to cause reproductive toxicity: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: 64-17-5 ethanol
New Jersey Right-to-Know List: 123-86-4 n-butyl acetate, 13463-67-7 titanium dioxide, 64-17-5 ethanol, 1333-86-4 carbon black
New Jersey Special Hazardous Substance List:123-86-4 n-butyl acetate: F3, 64-17-5 ethanol: CA, MU, TE, F3, 1333-86-4 carbon black: CA
Pennsylvania Right-to-Know List: 123-86-4 n-butyl acetate, 13463-67-7 titanium dioxide, 64-17-5 ethanol
Pennsylvania Special Hazardous Substance List: 123-86-4 n-butyl acetate: E.
Carcinogenicity categories:
EPA (Environmental Protection Agency): None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH): 13463-67-7 titanium dioxide: A4, 64-17-5 ethanol: A3, 1333-86-4 carbon black: A4
NIOSH-Ca (National Institute for Occupational Safety and Health): 13463-67-7 titanium dioxide, 1333-86-4 carbon black
·National regulations
REACH Regulation Annex XVII Restriction: None of the ingredients are listed.
REACH Regulation Annex XIV Authorisation List: None of the ingredients are listed.

Note: Regulatory information included here may not be all-inclusive.

Section 16 : Other Information

Abbreviations and acronyms:
Flammable Liquids 2: Flammable liquids – Category 2
Flammable Liquids 3: Flammable liquids – Category 3
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

The OSHA Hazard Communication Standard and the Health Canada Workplace Hazardous Materials Information Standard do not apply to the product described in this Product Safety Data Sheet. The reasons for the exemptions are contained in 29 CFR 1910.1200(b)(6)(ix) as amended Sept 14, 2009 per the Code of Federal Regulations and also Canadian Hazardous Products Act part 12 section (f) as amended June 1,

2009. The information contained in this Product SDS is for your information, but is not meant to imply that the product is covered by the requirements of the hazard communication standards.

Because of the small amount of paint in each marker (<13g) that is released at a slow rate under normal use, the paint in them are not considered to pose a significant risk through contact with skin or eyes, inhalation or ingestion. The above information is intended to cover the abnormal situation a marker leaks or is ruptured.

The information in this Product SDS was obtained from sources which we believe are reliable. Klein Tools, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. In no event shall Klein Tools be liable for incidental or consequential damages. All risks associated with product use are assumed by the user.