

Section 1: Identification

Product Name:	Klein Tools Skribe Permanent Markers	
Basic Model Numbers	86100	Black Ultra Fine Permanent Marker
	86101	Black Fine Permanent Marker
	86121	Red Fine Permanent Marker
	86141	Green Fine Permanent Marker
	86151	Blue Fine Permanent Marker
	86102	Black Chisel Permanent Marker
	86182	Red Chisel Permanent Marker
	86152	Blue Chisel Permanent Marker
	86103	Black XL Chisel Permanent Marker
Recommended Use	Industrial Writing and Marking	

Section 2: Hazard(s) Identification

These Permanent 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	H226- Flammable liquid and vapor. H302+H332- Harmful if swallowed or if inhaled.



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	<p>H314- Causes severe skin burns and eye damage. H317- May cause an allergic skin reaction. H341- Suspected of causing genetic defects. H336- May cause drowsiness or dizziness.</p>
Precautionary Statements	<p>P201- Obtain special instructions before use. P202- Do not handle until all safety precautions have been read and understood. 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. P260- Do not breathe dusts or mists. P264- Wash thoroughly after handling. P270- Do not eat, drink or smoke when using this product. P271- Use only outdoors or in a well-ventilated area. P272- Contaminated work clothing must not be allowed out of the workplace. P280- Wear protective gloves/protective clothing/eye protection/face protection. P301+P312- If swallowed: Call a poison center/doctor if you feel unwell. P301+P330+P331- If swallowed: Rinse mouth. Do NOT induce vomiting. 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. P305+P351+P338- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P308+P313 IF exposed or concerned: Get medical advice/attention P321- Specific treatment (see on this label). P333+P313- If skin irritation or rash occurs: Get medical advice/attention. P363- Wash contaminated clothing before reuse. 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.</p>

Section 3: Composition/Information on Ingredients

Chemical characterization: Mixtures

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

Ingredient Name	CAS Number	Percentage
1-Propanol	71-23-8	Trade Secret
1-Methoxy-2-propanol	107-98-2	Trade Secret
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	Trade Secret
Solvent Blue 38	1328-51-4	0-10%
Basic Red 1	989-38-8	0-5%
Solvent Orange 3	495-54-5	0-3%



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Solvent Violet 8	561-41-1	0-3%
Basic Blue 4	2390-60-5	0-3%
Basic Yellow 37	6358-36-7	0-3%
Direct Blue 264	68411-04-1	0-3%
Solvent Blue 4	6786-83-0	0-1%

Section 4 : First Aid Measures

General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.

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: Immediately call a doctor. Drink copious amounts of water and provide fresh air. 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. During heating or in a fire, poisonous gases are produced.

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). Use neutralizing agent. 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.

Keep respiratory protective device available.

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:

71-23-8 1-propanol

PEL (USA) Long-term value: 500 mg/m³, 200 ppm

REL (USA) Short-term value: 625 mg/m³, 250 ppm

Long-term value: 500 mg/m³, 200 ppm

TLV (USA) Long-term value: 100 ppm

A4

107-98-2 1-methoxy-2-propanol

REL (USA) Short-term value: 540 mg/m³, 150 ppm

Long-term value: 360 mg/m³, 100 ppm

TLV (USA) Short-term value: 100 ppm

Long-term value: 50ppm

A4

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:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid close or long term contact with the skin. Avoid contact with the eyes and skin. 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

Red, Black, Green, Blue

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-octanol/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

71-23-8 1-propanol

Oral	LD50	1870 mg/kg (rat)
Dermal	LD50	5040 mg/kg (rabbit)

989-38-8 Basic Red 1

Oral	LD50	280 mg/kg (ATE) 125 mg/kg (rat)
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2390-60-5 Basic Blue 4

Oral	LD50	100 mg/kg (rat)
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107-98-2 1-methoxy-2-propanol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	13000 mg/kg (rabbit)

495-54-5 Solvent Orange 3

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	13000 mg/kg (rabbit)

107-98-2 1-methoxy-2-propanol

Oral	LD50	1650 mg/kg (rat)
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107-98-2 1-methoxy-2-propanol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	13000 mg/kg (rabbit)

Primary irritant effect

Skin corrosion/irritation: Caustic effect on skin and mucous membranes.

Serious eye damage/irritation: Strong caustic effect. Strong irritant with the danger of severe eye injury

Respiratory or skin sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive Harmful Irritant. The product can cause inheritable damage. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

989-38-8 Basic Red 1: 3



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):

989-38-8 Basic Red 1

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Proposition 65

Chemicals known to cause cancer: None of the ingredients are listed.



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Chemicals known to cause reproductive toxicity: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

New Jersey Right-to-Know List: 71-23-8 1-propanol, 107-98-2 1-methoxy-2-propanol, 989-38-8 Basic Red 1

New Jersey Special Hazardous Substance List: 71-23-8 1-propanol: F3, 107-98-2 1-methoxy-2-propanol: F3

Pennsylvania Right-to-Know List: 71-23-8 1-propanol, 107-98-2 1-methoxy-2-propanol, 989-38-8 Basic Red 1

Pennsylvania Special Hazardous Substance List: 989-38-8 Basic Red 1: E

Carcinogenicity categories:

EPA (Environmental Protection Agency): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH): 71-23-8 1-propanol: A4

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed.

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

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

Flammable Liquids 2: Flammable liquids – Category 2

Flammable Liquids 3: Flammable liquids – Category 3

Acute Toxicity - Oral 3: Acute toxicity – Category 3

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Corrosion 1B: Skin corrosion/irritation – Category 1B

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Sensitization - Skin 1B: Skin sensitisation – Category 1B

Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2

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 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 SDS is for your information, but is not meant to imply that the product is covered by nor is this SDS meant to comply with all requirements of the hazard communication standards.



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Because of the small amount of paint in each marker (1-14g) that is released at a slow rate, 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.