



Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard 29 CFR 1910.1200.

This standard must be consulted for specific requirements.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Inkzall Markers	Drawing Number: 58-97-1290
Product Models: All colors and Metallic, Fine, Medium and Chisel Tip Markers	Issue Date: March 2016
	Supersedes Date: March 2015

Recommended intended purpose to be used as a marker

SECTION 2: HAZARDS IDENTIFICATION

Health	Environmental	Physical
Eye Irritation: No classified hazards	Acute Toxicity: No classified hazards	Flammable liquid: No classified hazards
Skin Irritation: No classified hazards	Chronic Toxicity: No classified hazards	
Acute Toxicity, Oral: No classified hazards		
Acute Toxicity, Inhalation: No classified hazards		

GHS Label

No applicable labeling

Hazard Statements	Precautionary Statements
May cause eye irritation	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	IF eye irritation persists: get medical attention/advice.
May cause mild skin irritation	Wash skin/hands thoroughly after handling.
	IF skin irritation occurs: get medical attention/advice.
May be harmful if swallowed	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
May be harmful if inhaled	IF INHALED: call a POISON CENTER or doctor/physician if you feel unwell.
	Use personal protective equipment as required.

Classified Hazards

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200. This SDS contains valuable information for the safe handling and proper use of this product. Save this SDS for future reference.

Other Hazards

None known

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Because of the small amount of ink in these markers (2-4 grams of alcohol-based ink/marker) that is released at a slow rate, none of the ingredients in these markers are considered to be hazardous as defined by OSHA Standard 29 CFR 1910.

Chemical Name	CAS #	Concentration ¹
Non-Hazardous Materials	Proprietary	100
Note: This product has been evaluated and does not require any hazard warning label under the OSHA Hazard Communication Standard.		
¹ All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume		

SECTION 4: FIRST AID MEASURES

Because of the small amount of ink in these markers that is released at a slow rate, no first-aid procedures for exposures to the skin, eyes, respiratory tract or gastrointestinal tract are required under normal circumstances. However, if eye irritation occurs, wash eyes with clean water

EYE CONTACT:

Hold eyelids open and flush with a steady, gentle stream of water. If the symptoms persist, contact a physician.

SKIN CONTACT:

Remove product from the skin by washing with a mild soap and water.

INHALATION:

If signs or symptoms of overexposure occur, remove the person to fresh air.

SECTION 5: FIRE FIGHTING MEASURES

NFPA 704 Hazard Class



HMIS



0 (Minimal)
1 (Slight)
2 (Moderate)
3 (Serious)
4 (Severe)

EXTINGUISHING MEDIA:

In accordance with NFPA guidance as appropriate for surrounding area, dry chemical, foam, water or CO2 fire extinguishers are all acceptable. Note that while water fog extinguishers are also acceptable, do NOT apply a direct stream of water onto burning product because it may cause spreading and increase fire intensity.

UNUSUAL FIRE & EXPLOSION HAZARDS:

None known

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

No special procedures or equipment required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

CLEAN-UP MEASURES:

Important: As with any spill or leak before responding ensure that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn. See Section 8 of this MSDS for PPE recommendations.

Small volumes of residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.

SECTION 7: HANDLING AND STORAGE

HANDLING:

As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs.

Do not shake markers and leave caps on markers when not in use.

STORAGE:

Store these markers away from heat in well-ventilated area.

SPECIAL COMMENTS:

No further data known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

Chemical Name	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
Non-Hazardous Materials	NA	NA	N	N
Note: This product has been evaluated and does not require any hazard warning label under the OSHA Hazard Communication Standard.				

EYE PROTECTION:

None required.

SKIN PROTECTION:

None required.

RESPIRATORY PROTECTION:

None required.

ENGINEERING CONTROLS:

Normal general ventilation is expected to be adequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:..... Solid containing liquid inks

Colour: Various

Flammability (solid, gas): N/A

Upper Explosive Limits (vol % in air): N/A

Odor:	Alcoholic	Lower Explosive Limits (vol % in air):	N/A
Odor Threshold:	N/A	Vapor pressure:.....	N/A
pH:	N/A	Vapor density:.....	N/A
Melting/Freezing Point:	N/A	Relative density:.....	N/A
VOC Content:.....	N/A	Solubility:.....	Soluble
Boiling Point:	N/A	Partition Coefficient:.....	N/A
Flash Point	22 °C	Auto-ignition Temperature:.....	N/A
Evaporation Rate:.....	N/A	Decomposition Temperature:.....	N/A
Specific Gravity:	N/A	Viscosity:	N/A

SECTION 10: STABILITY AND REACTIVITY

INCOMPATIBLE MATERIALS:

These markers and the inks in them are stable and non-reactive with most materials.

DECOMPOSITION PRODUCTS MAY INCLUDE:

Thermal decomposition products are dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and hazardous gases may evolve when the material burns. Combustion by-products may include: oxides of Nitrogen (NO_x), Carbon Monoxide (CO), Carbon Dioxide (CO₂).

CONDITIONS TO AVOID:

Avoid contact with incompatible materials and exposure flames and other sources of heat.

POLYMERIZATION:

This product is not expected to polymerize.

CHEMICAL STABILITY:

This product is stable.

REACTIVITY:

Stable under normal ambient and anticipated conditions of use.

SECTION 11: TOXICOLOGY INFORMATION

EYE EFFECTS:

No further toxicological data known.

SKIN EFFECTS:

No further toxicological data known.

ORAL EFFECTS:

No further toxicological data known.

INHALATION EFFECTS:

No further toxicological data known.

OTHER:

Because of the small amount of ink in each marker (2-4 grams) that is released at a slow rate, the inks in them are not considered to pose a significant toxic risk (acute or chronic toxicity) via skin contact, inhalation or ingestion or be corrosive or irritating to the skin or eyes.

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Small amounts of the inks in these markers are not expected to cause significant adverse effects to the environment. Components of these inks are not biodegradable, biomagnified or bioconcentrated in the environment. This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

TOXICITY:

No data available

PERSISTENCE AND DEGRADABILITY (BIOPERSISTENCY & BIODEGRADABILITY):

No data available

POTENTIAL OF BIOACCUMULATION:

No data available

MOBILITY IN SOIL:

No data available

OTHER ADVERSE EFFECTS:

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. These markers may be disposed in a municipal landfill in accordance with federal, state and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT HAZARDOUS MATERIAL INFORMATION:

Not otherwise DOT regulated.

SECTION 15: REGULATORY INFORMATION

FEDERAL REGULATIONS:

NOTE: This regulatory information included here should not necessarily be considered all-inclusive. These markers and the ink in them are not subject to the reporting requirements of the CERCLA, the SARA, the RCRA, the Clean Air Act and the Clean Water Act (US). Neither are they formulated with, nor do their manufacturing or formulation processes utilize and Class I or II Ozone depleting substances. The ingredients at levels found in this ink have not been listed as carcinogens or reproductive toxicants by the State of California's Safe Drinking Water and Toxic Enforcement Act (Proposition 65). The ingredients in these markers (and their ink) are in compliance with the Toxic Substances Control Act (TSCA). This ink is certified compliant as per ASTM D-4236. Marking Pens (except for metallics) are certified per EN71-2 and 71-3.

Toxic Substance Control Act:

The components of this product are listed on or exempt from reporting under the TSCA.

Ozone Depleting Substances:

This product contains no ozone depleting substances as defined by the Clean Air Act.

Hazardous Air Pollutants:

Any components listed below are defined by the Federal EPA as hazardous air pollutants.

SECTION 16: OTHER INFORMATION

Abbreviations:

- TSCA.....Toxic Substance Control Act
- ICAO.....International Civil Aviation Organization
- IMDG.....International Maritime Dangerous
- OSHA.....Occupational Safety and Health
- IARC/NTP.....International Agency for Research on Cancer/National Toxicology Program
- SARA.....Superfund Amendments and Reauthorization Act of 1986
- ACGIH.....American Conference of Governmental Industrial Hygienists
- NIOSH/MSHA.....National Institute for Occupational Safety Health/
Mine Safety and Health Administration
- WHMIS.....Workplace Hazardous Materials Information System

Prepared by: Milwaukee Electric Tool Corporation

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. **MILWAUKEE ELECTRIC TOOL CORPORATION** makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereto. All risks associated with product use are assumed by the user.



Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard 29 CFR 1910.1200.

This standard must be consulted for specific requirements.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Inkzall: Liquid Paint Pen	Drawing Number:	58-97-1295
Product Models:	All colors	Issue Date:	March 2016

Recommended intended purpose to be used as a paint pen

SECTION 2: HAZARDS IDENTIFICATION

Health	Environmental	Physical
Eye Irritation: No classified hazards	Acute Toxicity: No classified hazards	Flammable liquid: No classified hazards
Skin Irritation: No classified hazards	Chronic Toxicity: No classified hazards	
Acute Toxicity, Oral: No classified hazards		
Acute Toxicity, Inhalation: No classified hazards		

GHS Label

No applicable labeling

Hazard Statements	Precautionary Statements
May cause eye irritation	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	IF eye irritation persists: get medical attention/advice.
May cause mild skin irritation	Wash skin/hands thoroughly after handling.
	IF skin irritation occurs: get medical attention/advice.
May be harmful if swallowed	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
May be harmful if inhaled	IF INHALED: call a POISON CENTER or doctor/physician if you feel unwell.
	Use personal protective equipment as required.

Classified Hazards

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200. This SDS contains valuable information for the safe handling and proper use of this product. Save this SDS for future reference.

Other Hazards

None known

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Because of the small amount of paint in these pens that is released at a slow rate, none of the ingredients in these pens are considered to be hazardous as defined by OSHA Standard 29 CFR 1910.

Chemical Name	CAS #	Concentration ¹
Butanone	78-93-3	2 - 2.5
N-Butyl Acetate	123-86-4	35-37.5
Non-Hazardous Materials	Proprietary	Balance

Note: This product has been evaluated and does not require any hazard warning label under the OSHA Hazard Communication Standard.

¹ All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume

SECTION 4: FIRST AID MEASURES

Because of the small amount of paint in these pens that is released at a slow rate, no first-aid procedures for exposures to the skin, eyes, respiratory tract or gastrointestinal tract are required under normal circumstances. However, if eye irritation occurs, wash eyes with clean water

EYE CONTACT:

Hold eyelids open and flush with a steady, gentle stream of water. If the symptoms persist, contact a physician.

SKIN CONTACT:

Remove product from the skin by washing with a mild soap and water.

INHALATION:

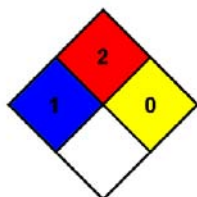
If signs or symptoms of overexposure occur, remove the person to fresh air.

INGESTION:

First aid is not normally required; however, if symptoms of ingestion persist, seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

NFPA 704 Hazard Class



HMIS



0 (Minimal)
1 (Slight)
2 (Moderate)
3 (Serious)
4 (Severe)

EXTINGUISHING MEDIA:

In accordance with NFPA guidance as appropriate for surrounding area, dry chemical, foam, water or CO₂ fire extinguishers are all acceptable. Note that while water fog extinguishers are also acceptable, do NOT apply a direct stream of water onto burning product because it may cause spreading and increase fire intensity.

UNUSUAL FIRE & EXPLOSION HAZARDS:

None known

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

No special procedures or equipment required.

SECTION 6: ACCIDENTAL RELEASE MEASURES**CLEAN-UP MEASURES:**

Important: As with any spill or leak before responding ensure that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn. See Section 8 of this MSDS for PPE recommendations.

Small volumes of residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.

SECTION 7: HANDLING AND STORAGE**HANDLING:**

As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs.

Do not shake product with cap removed. Leave caps on product when not in use.

STORAGE:

Store these pens away from heat in well-ventilated area.

SPECIAL COMMENTS:

No further data known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

Chemical Name	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
Butanone	TWA 200ppm	TWA 200ppm	N	N
N-Butyl Acetate	TWA 150ppm	TWA 150ppm	N	N
Non-Hazardous Materials	NA	NA	N	N
Note: This product has been evaluated and does not require any hazard warning label under the OSHA Hazard Communication Standard.				

EYE PROTECTION:

None required.

SKIN PROTECTION:

None required.

RESPIRATORY PROTECTION:

None required.

ENGINEERING CONTROLS:

Normal general ventilation is expected to be adequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid containing liquid	Flammability (solid, gas):	N/A
Colour:	Various	Upper Explosive Limits (vol % in air):	N/A
Odor:	Solvent	Lower Explosive Limits (vol % in air):	N/A
Odor Threshold:	N/A	Vapor pressure:	N/A
pH:	N/A	Vapor density:	N/A
Melting/Freezing Point:	N/A	Relative density:	N/A
VOC Content (volatile carbon): ..	23.03% (211.83g/l)	Solubility:	Soluble
Boiling Point:	N/A	Partition Coefficient:	N/A
Flash Point	>23 °C	Auto-ignition Temperature:	N/A
Evaporation Rate:	N/A	Decomposition Temperature:	N/A
Specific Gravity:	0.9 – 1.1	Viscosity:	N/A

SECTION 10: STABILITY AND REACTIVITY**INCOMPATIBLE MATERIALS:**

These pens and the paint in them are stable and non-reactive with most materials.

DECOMPOSITION PRODUCTS MAY INCLUDE:

Thermal decomposition products are dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and hazardous gases may evolve when the material burns. Combustion by-products may include: oxides of Nitrogen (NO_x), Carbon Monoxide (CO), Carbon Dioxide (CO₂).

CONDITIONS TO AVOID:

Avoid contact with incompatible materials and exposure flames and other sources of heat.

POLYMERIZATION:

This product is not expected to polymerize.

CHEMICAL STABILITY:

This product is stable.

REACTIVITY:

Stable under normal ambient and anticipated conditions of use.

SECTION 11: TOXICOLOGY INFORMATION**EYE EFFECTS:**

No further toxicological data known.

SKIN EFFECTS:

No further toxicological data known.

ORAL EFFECTS:

No further toxicological data known.

INHALATION EFFECTS:

No further toxicological data known.

OTHER:

Because of the small amount of paint in each pen that is released at a slow rate, the paint in them is not considered to pose a significant toxic risk (acute or chronic toxicity) via skin contact, inhalation or ingestion or be corrosive or irritating to the skin or eyes.

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Small amounts of the paint in these pens are not expected to cause significant adverse effects to the environment. Components of these paints are not biodegradable, biomagnified or bioconcentrated in the environment. This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.

TOXICITY:

No data available

PERSISTENCE AND DEGRADABILITY (BIOPERSISTENCY & BIODEGRADABILITY):

No data available

POTENTIAL OF BIOACCUMULATION:

No data available

MOBILITY IN SOIL:

No data available

OTHER ADVERSE EFFECTS:

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. These markers may be disposed in a municipal landfill in accordance with federal, state and local regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT HAZARDOUS MATERIAL INFORMATION:

Not otherwise DOT regulated.

SECTION 15: REGULATORY INFORMATION

FEDERAL REGULATIONS:

NOTE: This regulatory information included here should not necessarily be considered all-inclusive. These pens and the paint in them are not subject to the reporting requirements of the CERCLA, the SARA, the RCRA, the Clean Air Act and the Clean Water Act (US). Neither are they formulated with, nor do their manufacturing or formulation processes utilize and Class I or II Ozone depleting substances. The ingredients at levels found in this paint have not been listed as carcinogens or reproductive toxicants by the State of California's Safe Drinking Water and Toxic Enforcement Act (Proposition 65). The ingredients in these pens (and their paint) are in compliance with the Toxic Substances Control Act (TSCA).

Toxic Substance Control Act:

The components of this product are listed on or exempt from reporting under the TSCA.

Ozone Depleting Substances:

This product contains no ozone depleting substances as defined by the Clean Air Act.

Hazardous Air Pollutants:

Any components listed below are defined by the Federal EPA as hazardous air pollutants.

SECTION 16: OTHER INFORMATION

Abbreviations:

TSCA.....Toxic Substance Control Act
ICAO.....International Civil Aviation Organization
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OSHA.....Occupational Safety and Health
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SARA.....Superfund Amendments and Reauthorization Act of 1986
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NIOSH/MSHA.....National Institute for Occupational Safety Health/
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WHMIS.....Workplace Hazardous Materials Information System

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