

22182-XXXX

KRINK**Safety Data Sheet Page: 1****Date of Issue:** 09/18/2018**Latest Revision:** 09/18/2018**Revision #:** 1

This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

1. Identification of the Substance/Preparation and the Company Undertaking**GHS Product Identifier**

Product Form/Description:	Alcohol-based Paint Marker
Product Name:	Krink K-42

Other Means of Identification

Formula Codes:

Black	White	Silver	Gold	Red	Yellow	Orange	Teal	Blue	Light Blue	Green	Light Green	Yellow Green	Pink	Light Pink	Purple	Brown
XV-11939	XV-11812	XV-11894	XV-11967	XV-11961	XV-11820	XV-12587	XV-11878	XV-11979	XV-11979	XV-11914	XV-12587	XV-12556	XV-11940	XV-12672	XV-11845	XV-12443

Recommended use of the chemical and restrictions on use

Recommended Use	Art Products Marking Pen for porous and non-porous surfaces
Uses Advised Against:	No information available

Supplier's Details

Manufacturer Address	Krink 32 33rd St., #11 Brooklyn, NY 11232
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Emergency Telephone Number

Chemtec	US 800-424-9300	International 703-527-3887
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2. HAZARD IDENTIFICATION**Classification**

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

Physical Hazards	FLAMMABLE LIQUIDS – Category 3
Health Hazards	SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory Tract Irritation) – Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic Effects) – Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) – Category 2 Percentage of Mixture consisting of ingredient(s) of unknown oral toxicity: 15% Percentage of Mixture consisting of ingredient(s) of unknown dermal toxicity: 30.8% Percentage of Mixture consisting of ingredient(s) of unknown inhalation toxicity: 99.4%
Environmental Hazards	Not Classified

GHS Label Elements**Signal Word:** Danger

KRINK**Safety Data Sheet Page: 2****Date of Issue:** 09/18/2018**Latest Revision:** 09/18/2018**Revision #:** 1**Precautionary Statements:**

Keep away from heat, sparks, open flames, and hot surfaces. No smoking!

Appearance:	Opaque Color
Physical state:	Thin viscosity liquid
Odor:	Alcohol Odor

Hazard Statements:

Code	Statement
H315	Causes skin irritation. Causes serious eye irritation.
H335	May cause respiratory irritation.
H312	Harmful in contact with skin.
H372	May cause damage to organs through prolonged or repeated exposure by inhalation.
H226	Flammable liquid and vapor.
H336	May cause Drowsiness or Dizziness

Prevention	Response	Storage	Disposal
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Keep cap tightly closed. Use in a well-ventilated area. Do not breathe vapor. Wash thoroughly if on skin.	Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. SKIN (or hair): Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.	Store in a well-ventilated place. Keep cool.	Dispose of contents and container in accordance with all local, regional, national and international regulations.

General Advice

If exposed or concerned:	Get medical attention/advice
ACUTE HAZARD:	At high concentration, dizziness and unconsciousness may occur.
CAUTION:	Contains alcohol. Harmful or fatal if swallowed. Avoid inhalation. Direct contact may cause skin or eye irritation.

Fire	Use CO2, dry chemical, foam, or water spray
Spills and Leaks	Contain and collect spillage
Hazard not Otherwise Classified (HNOC)	Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS**Hazardous substance(s) or Complex Substance(s) required for disclosure**

Chemical Name	CAS -No	Weight %
Colorant Preparation	Mixture	15-20
Pigment White 6	13463-67-7	20-40
Acrylic/Styrene co-polymer	100-42-5	10-15
Isopropanol	67-63-0	30-40
Ethanol	64-17-5	10-20
DAA	123-42-2	5-10

* Concentrations shown as a range is due to batch variations

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

4. FIRST AID MEASURES

KRINK**Safety Data Sheet Page: 3****Date of Issue:** 09/18/2018**Latest Revision:** 09/18/2018**Revision #:** 1**Description of necessary first-aid measures**

General Advice	In case of doubt, or when symptoms persist, seek medical attention.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of First Aiders:	Use personal protection equipment.

Most important symptoms/effects, acute and delayed

Potential Acute Health Effects	
Eye contact	Causes eye irritation.
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin Contact	No known significant effects or critical hazards.
Ingestion	Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms	
Eye contact	irritation watering redness
Inhalation	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin Contact	reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	reduced fetal weight increase in fetal deaths skeletal malformations

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

Note to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatments	No specific treatment.
Protection of First Aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

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Dry chemical, carbon dioxide, and regular foam. For large fires, use foam or flood with fine water spray

Unsuitable Extinguishing media

No information available

Specific Hazards arising from the chemical

Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer, or drain.

Hazardous Thermal Decomposition Products

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
metal oxide/oxides

Protective Equipment and Precautions for Firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For Non-emergency Personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small Spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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7. HANDLING AND STORAGE**Precautions for safe handling**

Protective Measures	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities

Storage	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use.
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KRINK**Safety Data Sheet Page: 5****Date of Issue:** 09/18/2018**Latest Revision:** 09/18/2018**Revision #:** 1**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control Parameters**

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	IDLH	NIOSH REL
Isopropyl Alcohol (67-63-0)	TWA - 200 ppm STEL - 400 ppm Remarks – Eye & URT Irr; CNS repair	TWA – 980 mg/m ² TWA – 400 ppm		
Diacetone Alcohol (123-42-2)	TWA - 50 ppm Remarks – URT Irr; CNS repair	TWA – 240 mg/m ² TWA - 50 ppm	US IDLH – 1800 ppm (10% LEL)	TWA – 240 mg/m ² TWA - 50 ppm
Ethanol (64-17-5)	TWA - 1000 ppm	TWA - 1000 ppm	TWA - 3300 ppm (10% LEL)	TWA - 1000 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Property	Value	Remarks/Method
Physical State:	Liquid	None Known
Appearance and Odor:	Opaque, thin viscosity liquid with Alcohol odor.	None Known
Odor Threshold:	No Data	None Known
Vapor Density (AIR = 1):	3.1 [Air = 1]	None Known
Vapor Pressure (mm-Hg @ 70°F):	1.5 kPa (10.9 mm Hg) [at 20°C]	None Known
Flash Point:	Closed cup: 31°C (87.8°F)	[Pensky-Martens Closed Cup]
Specific Gravity (H2O=1) @70°F:	>1	None Known
Flammability:	No Data	None Known
Auto-ignition Temperature:	No Data	None Known
Decomposition Temperature:	No Data	None Known
Melting Point:	No Data	None Known
Freezing Point:	No Data	None Known
Boiling Point:	282 to 286°F	None Known
Relative Evaporation Rate (Butyl Acetate = 1):	0.66 (butyl acetate = 1)	None Known
Solubility in Water:	Negligible	None Known
Log Pow:	No Data	None Known
PH:	No Data	None Known
Explosive limits	Lower: 1.5% Upper: 13.74%	None Known
Explosive Properties	No Data	None Known
Oxidizing Properties	No Data	None Known
Volatile Organic Compound:	70%	None Known
Relative density	No Data	None Known

Volatile Organic Compounds

Color	Formula	Weight
Various	K-42	10 ml

10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	Stable under recommended conditions.

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Possibility of Hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous Polymerization	Will not occur
Conditions to Avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible Materials	Reactive or incompatible with the following materials: oxidizing materials
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

No Data

Irritation/Corrosion

No Data

Delayed and immediate effects and also chronic effects from short and long term exposure

Respiratory or Skin Sensitization	No information available.
Germ Cell Mutagenicity	No information available.

Potential Acute Health Effects from immediate or prolonged exposure

See section 4.

12. ECOLOGICAL INFORMATION

Ecotoxicity	There is no data available on the product itself
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13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated Packaging	Do not re-use empty containers.

14. TRANSPORT INFORMATION

Domestic Highway (Containers <1 Quart are ORM-D) Proper Shipping Name:	Consumer Commodity
Hazard Class/Subsidiary:	ORM-D
Label Required:	ORM-D

	<u>(Ground) DOT</u>	<u>(Sea) IMDG/IMO</u>	<u>(Air) IATA</u>
UN number	UN 1263	UN 1263	UN 1263
Proper Shipping Name	Consumer Commodity	Consumer Commodity	Consumer Commodity
Transport Hazard Class(es)	3	3	3
Packing Group	II	II	II
Environmental Hazards	No.	No.	No.

15. REGULATORY INFORMATION**Statement of Conformance for Art Materials:**

FROM: John J Clary, PH. D. Fellow ATS.

ART MATERIAL: K-42 from Krink, Its franchises, Distributors, and Dealers.

This Review is based on current chemical composition of the above named material, and specific information is acute and chronic toxicity, physical form, bioavailability, and concentrations used, standard practices and related information. The risk assessment on the material itself is attached. This material must be re-evaluated at least every five years (January 23 2020).

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In my professional judgment, based on this evaluation, your art material listed above conforms to ASTM D 4236 (LHMA – 16 CFR 1500.14). It is my opinion that this material under reasonable handling or use (includes reasonable foreseeable accidental handling or use) should not cause personal injury or substantial illness nor would it be expected to be toxic, corrosive, or combustible, an irritant or a strong sensitizer by the oral, dermal, or inhalation routes of exposure as defined in the FHSA Regulations (16 CFR 1500.3 (b), (5), (8), (9)). Labeling is required under FHSA: **CAUTION: FLAMMABLE**

The statement "Conforms to ASTM D 4236" is required for chronic toxicity on the label.

No labeling is required under the provisions of The California Safe Drinking Water and Toxic Enforcement Act of 1986

This Material is Determined to be Non-Toxic under Proposed us Conditions.

John J. Clary
John J. Clary, Ph.D.
Certified in General Toxicology
Fellow, A.T.S

Regulatory Status:

This product has been evaluated by a toxicologist and labeled for acute and chronic health hazards in accordance with the Labeling of Hazardous Art Materials Regulation and Federal Regulation 16 CFR 1500.14 of the Federal Hazardous Substances Act. This product conforms to ASTM D-4236 Standard Practice for Labeling Art Materials for Chronic Adverse health effects. This product has been certified by ACMI (Artists Craft Material Institute, Inc.) to carry the AP(Approved Product) Seal, meaning this product bears no chronic or acute human health hazards.

TSCA Inventory:

The product on this SDS is not listed on the Toxic Substances Control Act Inventory. All ingredients used to manufacture this product are listed on the TSCA Inventory.

US Regulatory Rules:

Section 313 or Title III of SARA. This product contains a chemical, which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations Part 372.

Hazard categories

Acute Health Hazard	YES
Chronic Health Hazard	NO
Fire Hazard	YES
Sudden release of Pressure Hazard	NO
Reactive Hazard	NO

State Regulation

California Proposition 65	Listed
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16. OTHER INFORMATION**HMIS CLASSIFICATION**

Health Hazard:	2
Flammability:	3
Physical Hazard:	0
PPE	Splash Goggles, Gloves, Apron, Vapor Respirator

Health Hazard:	2
Flamability:	3
Physical Hazard:	1
Personal Protection:	B

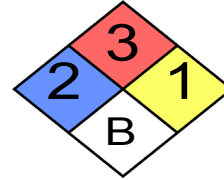
NEPA CLASSIFICATION

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Health Hazard	2
Flammability	3
Reactivity	0
Personal Protection	B



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