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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY UNDERTAKING**GHS Product Identifier****Product Name:** UZ Alcohol Based Ink / UZ Conditioner**Other means of identification****Product Code(s):** #204015 UZ Alcohol Based Ink / #204005 UZ Conditioner**Recommended use of the chemical and restrictions on use****Recommended Use:** Ink for non-porous surfaces.**Uses advised against:** Do not use on skin. Keep away from children.**Supplier's Details****Supplier's Address:**

U-Mark, Inc.
102 Iowa Ave.
Belleville, IL 62220
Tel: 618-235-7500

Emergency Telephone Number**Chemical Emergency Phone Number:**

24-hour Emergency Phone: Infotrac 1-800-535-5053 (USA and Canada), +1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION**Classification**

This product is considered hazardous by the OSHA Hazard Communication Standard 2012 (29CFR 1910,1200)

Emergency Overview**GHS Label elements, including precautionary statements****Signal word:** Danger**Hazard Statement:** Highly flammable liquid and vapor. Causes serious eye irritation.**Precautionary Statements****Prevention:**

Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground/bond containers and receiving equipment. Use explosion proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center /doctor if you feel unwell. 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 advice/attention. In case of fire: Use for extinction: CO2, dry chemical, or foam.

Storage:

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with all local/regional/national/international regulations.

Hazard Not Otherwise Classified (HNOC): None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Ethyl Alcohol	67-17-5	40-100	*
Isopropyl Alcohol	67-63-0	40-100	*

4. FIRST AID MEASURES**Description of first-aid measures**

Inhalation:	If inhaled: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center /doctor if you feel unwell.
Eye Contact:	IF IN EYES: Rinse opened eye cautiously with running water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.
Skin Contact:	In case of skin contact: Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
Ingestion:	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms/effects acute and delayed

Most Important Symptoms/Effects:	May cause irritation to the mucous membranes and upper respiratory tract. Ingestion, even in small amounts (under two ounces) may cause drunkenness, mental sluggishness, and other related symptoms. May cause skin irritation and defatting of skin with repeated/prolonged contact. Exposed individuals may experience eye tearing, redness and discomfort.
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Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician:	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Extinguishing Media**

Suitable Extinguishing Agents: CO₂, dry chemical, or foam.

Special hazards arising from the substance or mixture: Highly flammable.

Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

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

Personal Precautions:	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.
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Environmental Precautions

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Methods for Containment:	Contain spillage and collect with an inert absorbent and place in an appropriate container for disposal according to local regulations (see section 13).
Methods for Cleaning Up:	For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible Products: Strong oxidizers. Alkali metal hydroxides.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³

Appropriate engineering controls

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and Body Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

Body Protection: Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Liquid of various colors
Color: Varies
Odor: Pungent Alcohol
Odor Threshold: Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	Not determined	
Melting Point/Range	Not determined	
Boiling Point/Boiling	78 °C / 172 °F	

Range Flash Point	13 °C / 56 °F	Tag Closed Up
Evaporation Rate	Not determined	
Flammability (solid, gas)	n/a-liquid	
Flammability Limits in Air		
upper flammability limit	21.2%	
lower flammability limit	3.53%	
Vapor Pressure	Not determined	
Vapor Density	Heavier than air 1.6	(Air=1)
Specific Gravity	0.79	(1=Water) @ 68 °F (20 °C)
Water Solubility	Appreciable	
Solubility in other solvents	Not determined	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
<u>Other information</u>		
VOC Content (%)	900 g/L	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Strong oxidizers. Alkali metal hydroxides.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD/LC50 values that are relevant for classification:

64-17-5 Ethyl Alcohol

Oral LD50 7060 mg/kg (Rat)

Inhalation LC50 124.7 mg/L (Rat) 4 h

67-63-0 Isopropyl Alcohol

Oral LD50 4396 mg/kg (Rat)

Dermal LD50 12800 mg/kg (Rat) / 12870 mg/kg (Rabbit)

Inhalation LC50 12.6 mg/L (Rat) 4 h

Primary irritant effect

On the skin:

Irritant to skin and mucous membranes.

On the eye:

Irritating effect.

Sensitization:

Sensitizing effect through inhalation is possible with prolonged exposure.

Sensitizing effect by skin contact is possible with prolonged exposure.

Additional toxicological information:

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic life with long-lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl Alcohol 64-17-5		12.0 – 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 – 15100: 96 h Pimephales promelas mg/L LC50 flow-through		9268 – 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 static
Isopropyl Alcohol 67-63-0	1000: 96 h Desmododesmus subspicatus mg/L EC50 1000: 72 h Desmododesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50

Persistence and Degradability: Not determined.

Bioaccumulation: Not determined.

Mobility:

Chemical Name	Partition Coefficient
Ethyl Alcohol 64-17-5	-0.32
Isopropyl Alcohol 67-63-0	0.05

Other adverse effects Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION**DOT:**

UN/ID No UN1210
Proper Shipping Name Printing Ink
Hazard Class 3
Packing Group II
Description UN1210, Printing Ink, 3, II

IATA:

UN/ID No UN1210
Proper Shipping Name Printing Ink
Hazard Class 3
Packing Group II
Description UN1210, Printing Ink, 3, II

IMDG:

UN/ID No UN1210
Proper Shipping Name Printing Ink
Hazard Class 3
Packing Group II
Description UN1210, Printing Ink, 3, II

15. REGULATORY INFORMATION**Safety, Health and environmental regulation/legislation specific for the substance/mixture****SARA 313 Components****Section 313 (Specific toxic chemical listings):**

67-63-0 Isopropyl Alcohol

TSCA (Toxic Substances Control Act):

Listed

Massachusetts Right To Know Components

64-17-5 Ethyl Alcohol

67-63-0 Isopropyl Alcohol

Pennsylvania Right To Know Components

64-17-5 Ethyl Alcohol

67-63-0 Isopropyl Alcohol

New Jersey Right To Know Components

64-17-5 Ethyl Alcohol

67-63-0 Isopropyl Alcohol

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined.

Flammability

Not determined.

Instability

Not determined.

Special Hazards

Not determined.

HMIS**Health Hazards**

2

Flammability

3

Instability

0

Special Hazards

Not determined.

Prepared By: compliance@umarkers.com

U-Mark, Inc.

102 Iowa Ave.

Belleville, IL 62220

Tel: +1-618-235-7500

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The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet