

MATERIAL SAFETY DATA SHEET

SECTION 1: Product Identification and General Information

Product Description: Thermal Printer Cleaning Pen

Item number: 760-11000-KTI

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SECTION 2: Hazards Identification

GHS Classification: Flammable Liquid Category 2 (H225).

Required product labeling:



H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness. Precautionary Phrases:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P264 Wash exposed skin thoroughly after handling.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice or attention.

P370 + P378 In case of fire: Use water spray or fog, foam, carbon dioxide or dry chemical to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of container in accordance with local regulations.

Other Hazards: None

SECTION 3: Composition & Information on Ingredients

Chemical Name: Isopropanol

CAS: 67-63-0

EINECS: 200-661-7

GHS Classification Regulation (EC) No 1272/2008:

Flam Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE Cat 3 (H336) WT %: 50-99

Chemical Name: Water

CAS: 7732-18-5

EINECS: 231-791-2

GHS Classification Regulation (EC) No 1272/2008: Not Classified

WT %: 1-50

SECTION 4: First Aid Measures

Eye Contact: Flush with copious amounts of water for at least 15 minutes. Seek medical attention.

Skin Contact: cleanse thoroughly with and water.

Inhalation: Remove to fresh air. Get medical attention.

Ingestion: Ingestion is unlikely for solid products. No first aid is required for small amounts transferred from hands to mouth

SECTION 5: Fire Fighting Measures

Extinguishing Media: Use water spray or fog, foam, carbon dioxide or dry chemical.

Special Hazards Arising from the Substance or Mixture:

Liquid saturant is a highly flammable liquid. Vapors are heavier than air and may flow along surfaces to remote ignition sources and flash back. This product contains only a small amount of liquid per container, therefore the risk of creating a fire hazard is minimal.

Hazardous Decomposition Products: Combustion may produce oxides of carbon.

Advice for Firefighters: Firefighters should always wear self-contained breathing apparatus and full protective clothing for fires involving chemicals or in confined spaces.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: None Required

Environmental Precautions: Report spill as required by local and federal regulations.

Methods and Material for Containment and Cleaning Up: Pick up and place in an appropriate container for flammable waste disposal.

Reference to Other Sections: Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

SECTION 7: Handling, Storage & Usage

Precautions for Safe Handling: Avoid contact with the eyes and skin. Wash hands with soap and water after use. Avoid breathing mists or vapors. Keep product away from heat, flames, and all other sources of ignition. Do not smoke when handling.

Conditions for Safe Storage: Store in a cool, dry locations away from incompatible materials, heat, and open flames. Protect containers from physical damage.

Specific end use(s): Technical cleaning.

SECTION 8: Exposure Control & Personal Protection

Control Parameters:

Chemical Name: Isopropanol Exposure Limits:

400 ppm OSHA PEL

200 ppm TWA, 400 ppm STEL ACGIH TLV

200 ppm TWA, 400 ppm STEL DFG MAK

400 ppm TWA, 500 ppm STEL UK WEL

400 ppm TWA, 500 ppm STEL AU OEL

Biological Limit Value: None established

Chemical Name: Water

Exposure Limits: None established

Biological Limit Value: None established

Exposure Controls:

Engineering Controls: General ventilation is adequate under normal conditions of use.

Respiratory Protection: None required for normal use.

Skin Protection: None required under normal use conditions.

Eye Protection: None required under normal use conditions. Other: None required.

SECTION 9: Physical and Chemical Properties

Appearance: Clear liquid impregnated on a felt pen core

Odor: Mild alcohol odor.

Odor Threshold: No data available

pH: Not available

Melting Point/Freezing Point: -121°F (-85°C) (isopropanol)

Boiling Point: 180°F (82°C) @ 760 mmHg

Flash Point: 54°F (12°C) (isopropanol)

Evaporation Rate: 1.2 (Butyl acetate = 1)

Flammable Limits: LEL – 2% UEL – 12.7%

Vapor Pressure: 32.25 mmHg @ 20°C (isopropanol)

Percent Volatile: 100%

Vapor Density: 2.1 (isopropanol)

Specific Gravity: 0.78

Water Solubility: Saturant – Infinite

Octanol/Water Partition Coefficient: Not available

Autoignition Temperature: >662°F (>350°C)

Decomposition Temperature: Not available

Viscosity: Not available

Explosion Properties: Not explosive

Oxidizing Properties: Not oxidizing

VOC Content: No data available

Release of Invisible Vapors and Gases: Yes

Particle Characteristics: Not applicable for liquids.

SECTION 10: Stability and Reactivity

Reactivity: Not reactive under normal conditions of use.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Avoid heat, sparks, and open flames.

Incompatible Materials: Avoid oxidizing agents, aldehydes, chlorine, ethylene oxide, acids, and isocyanates.

Hazardous Decomposition Products: Thermal decomposition may produce oxides of carbon.

SECTION 11: Toxicological Information

Eye: Direct contact may cause moderate eye irritation with redness, tearing, and stinging.

Skin: Prolonged exposure may cause skin irritation, drying, and dermatitis.

Inhalation: Inhalation of mists or vapors may cause upper respiratory tract irritation, headache, dizziness, drowsiness, confusion, and other central nervous system effects.

Ingestion: This product contains only a small amount of liquid. No adverse effects are expected.

Toxicity Values:

Isopropanol: Oral rat LD50 5,045 mg/kg; inhalation rat LC50 16,000 ppm/8 hr; Skin rabbit LD50 12,800 mg/kg Skin Irritation/Corrosion: This product is not classified as irritating to skin.

Serious Eye Damage/Irritation: Isopropanol is an eye irritant.

Respiratory or Skin Sensitization: This product is not classified as skin sensitizing.

Germ Cell Mutagenicity: In an in-vivo study, isopropanol did not induce micronuclei in bone marrow of mice. Studies conducted in mammalian cells in vitro did not induce sister chromatid exchanges or gene mutations. Isopropanol did not induce aneuploidy in *Neurospora crassa* study. It is not mutagenic to bacteria.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU CLP. **Reproductive Toxicity:** Isopropyl alcohol was given continuously in drinking water in doses of 1.5, 1.4, & 1.3 g/kg body weight/day to parents and to two successive generations of rats, respectively. Neither growth, reproductive function nor embryonic or postnatal development was affected, except for some retardation of growth early in life of first generation rats.

Specific Target Organ Toxicity, Single Exposure: No data available

Repeated Exposure: F344 rat and CD-1 mice were exposed to 0, 100, 500, 1500, or 5000 ppm isopropanol for 13 weeks. Signs of narcosis were observed in the 5000- ppm isopropanol groups only. Increased body weight and/or body weights gain were observed for rats of the 1500- and 5000-ppm groups as well as female mice of the 5000-ppm group compared to control animals. Changes to food and water consumption generally corresponded to changes in body weight. Increased relative liver weights for both sexes of rats and female mice of the 5000-ppm group and increased size and frequency of hyaline droplets within the kidneys of exposed male rats were observed.

Aspiration Hazard: This product is not classified as an aspiration hazard.

SECTION 12: Ecological Information

Ecotoxicity: none

Persistence and degradability: readily biodegradable

Bioaccumulation: none

Mobility in soil and other adverse effects: none

SECTION 13: Disposal Considerations

Safe Handling and Disposal Method: Discard used product in an appropriate container.

Disposal of contaminated packaging: discard empty packaging in trash.

Environmental Regulations: dispose of in accordance with all local, state and federal regulations.

SECTION 14: Transportation Information

UN Proper Shipping Name: US DOT- Not Regulated (49 CFR 172.102 Special Provision 47), EU ADR/RID- Not Regulated (Special Provision 216), IMDG- Not Regulated (Special Provision 216), ICAO- Not Regulated (Special Provision A46)

Transport Hazard Class(s): None

Packing Group: None

Environmental Hazards: No

Special Precautions for User: None

Transport in Bulk According to IMO Instruments: Not applicable

SECTION 15: Regulatory Information

List of substances: no list of substances applicable.

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

USA:

EPA SARA 311 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product does not contain materials known in the state of California to cause cancer and/or reproductive harm.

Canada:

Canadian Environmental Protection Act / All of the ingredients are listed on the Canadian Domestic Substances List.

EU:

Biocidal Products Regulation (BPR)

Classification, Labelling and Packaging Regulation (CLP)

Chemical Safety Assessment: Not required

SECTION 16: Other Information

None.

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