# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name: Thermal Printer Cleaning Pen 12ct Box
Product Number: 36-0000013-00LF

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Technical Cleaning

1.3 Details of the Supplier of the Safety Data Sheet:

TSC Auto ID
Georg-Wimmer-Ring 8b
85604 Zorneding Germany
+49-8106-37979-001
Tscprinters.com

1.4 Emergency Telephone Number:

Emergency Spill Information: CHEMTREC
+1 (800) 424-9300
SDS Date of Preparation: February 16, 2021
SDS Revision Number: 2

## SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Physical: None
Health: Eye Irritant Category 2 (H319)
Environmental: None

2.2 Label Elements:

WARNING!
Contains: Isopropanol
Hazard Phrases:

| | |
|---|---|
| H319 | Causes serious eye irritation. |

Precautionary Phrases:

| | |
|---|---|
| P264 | Wash exposed skin thoroughly after handling. |
| P280 | Wear protective gloves and eye protection. |
| 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. |

2.3 Other Hazards: None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

**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

See Section 16 for further information on GHS Classification.

**SECTION 4: FIRST AID MEASURES**

4.1 Description of First Aid Measures:

Eye Contact: If contact occurs, immediately flush eyes with water for 15 minutes, while holding the eye lids open to be sure the material is washed out. Get medical attention if irritation persists.

Skin: No first aid should be required. If skin irritation develops, discontinue use and seek medical attention.

Inhalation: If symptoms develop move victim to fresh air. Get medical attention if irritation persists or other symptoms persist.

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

4.2 Most Important symptoms and effects, both acute and delayed: Direct contact with liquid may cause moderate eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed: None required.

**SECTION 5: FIRE FIGHTING MEASURES**

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

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: 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.

5.3 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**

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: None Required

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

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

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

**SECTION 7: HANDLING AND STORAGE**

7.1 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.

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

7.3 Specific end use(s): Technical cleaning.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 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

8.2 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**

9.1 Information on basic Physical and Chemical Properties:

Appearance: Clear liquid with an alcohol odor 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
9.2 Other Information: None

**SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity: Not reactive under normal conditions of use.
10.2 Chemical Stability: Stable under normal storage and handling conditions.
10.3 Possibility of Hazardous Reactions: None known.
10.4 Conditions to Avoid: Avoid heat, sparks, and open flames.
10.5 Incompatible Materials: Avoid oxidizing agents, aldehydes, chlorine, ethylene oxide, acids, and isocyanates.
10.6 Hazardous Decomposition Products: Thermal decomposition may produce oxides of carbon.

**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on Toxicological Effects:

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.
Acute 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
Repeat 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**

12.1 Toxicity: This product contains less than 3 grams of liquid on the pads and no free liquid or very small quantities of free liquid in the package. No adverse effects on the aquatic environment are expected.
Isopropanol: 96 hr LC50 fathead minnows 6,120 mg/L; 48 hr LC50 brown shrimp 1400 mg/L
12.2 Persistence and Degradability: Readily biodegradable.
12.3 Bioaccumulative Potential: Not expected to bioaccumulate.
12.4 Mobility in Soil: No data available.
12.5 Results of PBT and vPvB Assessment: Not required.
12.6 Other Adverse Effects: None known.

**SECTION 13: DISPOSAL INFORMATION**

13.1 Waste Treatment Methods:

Safe Handling and Disposal Method: Discard used product in an appropriate container.
Disposal of Contaminated Packaging: Discard empty packaging in trash.
Environmental Regulations: Dispose in accordance with all local, state and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

**NON FREE-FLOWING**

14.1 UN Number:

14.2 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)

14.3 Transport Hazard Class(s): None

14.4 Packing Group: None

14.5 Environmental Hazards: No

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

**SECTION 15: REGULATORY INFORMATION**

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

US Regulatory Information:

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.

Canadian Regulatory Information:

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

15.2 Chemical Safety Assessment: Not required

**SECTION 16: OTHER INFORMATION**

SDS Revision History: April 8, 2020: New Format.
February 16, 2021: New Format.

GHS Phrases for Reference (See Section 2 and 3):

Eye Irrit. 2 Eye Irritant Category 2

Flam Liq. 2 Flammable Liquid Category 2

STOT SE 3 Specific Target Organ Toxicity Single Exposure Category 3

H225 Very flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.