SAFETY DATA SHEET

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

1.1 Product Identifier:

Trade Name: TEKNIPURE 6-10% Isopropyl Alcohol Solution Cleaning Wipes
Label Product Number:
Product Number: TS1MPI09-911, TS1PCI06R-99, TS2PUI09-99, TS2PUI09R-99, TS2PUI09Z-99, TS2PLI10-99, TS2PLI10R-99, TS3PBI10-99, TS3PBI10R-99

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:

Manufacturer:	Teknipure 2150 W. Broadway Rd. Suite 104 Mesa, AZ 85202
Information Phone Number:	+1 (480) 821-3182
E-mail:	info@teknipure.com

1.4 Emergency Telephone Number:

Emergency Spill Information: CHEMTREC
+1 (800) 424-9300
SDS Date of Preparation: April 25, 2023
SDS Revision Number: 1

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Physical: Flammable Liquid Category 3 (H226)
Health: Eye Irritant Category 2 (H319), Specific Target Organ Toxicity Single Exposure Category 3 (H336)
Environmental: None

2.2 Label Elements:

Warning
Contains:
Hazard Phrases:

H226	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.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, or lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing mists or vapors.
P264	Wash exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P370 + P378	In case of fire: Use water spray or fog, foam, carbon dioxide or dry chemical to extinguish.
P403 + P233 + P235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405	Store locked up.

P501 Dispose of contents and container in accordance with local, regional, and national regulations.

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 %: 6-10

Chemical Name: Water
CAS#: 7732-18-5
EINECS#: 231-791-2
GHS Classification Regulation (EC) No 1272/2008: Not Classified
WT %: 90-94

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: Remove contaminated clothing. Wash skin thoroughly with soap and water. If skin irritation develops, seek medical attention. Wash contaminated work clothing before reuse.
Inhalation: If symptoms develop move victim to fresh air. Get medical attention if irritation persists or other symptoms persist.
Ingestion: Rinse mouth with water. If symptoms develop, seek medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: Direct contact with liquid may cause moderate eye irritation. Prolonged skin contact may cause dryness and irritation. Inhalation of vapors or mists may cause upper respiratory tract irritation and central nervous system effects.

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 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: Remove all ignition sources such as open flames and spark producing equipment. Avoid contact with eyes and skin. Wear appropriate protective clothing. Avoid breathing mists or vapors. Ventilate area.

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

6.3 Methods and Material for Containment and Cleaning Up: For Free-Flowing products: Absorb material with an inert absorbent and place into an appropriate container for disposal. Do not place into containers where ignition sources such as cigarettes or other ignition sources may be discarded. Wash spill area thoroughly. For Non Free-Flowing products: Do not reuse. 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. If the exposure levels are exceeded, use an approved organic vapor respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with facility protocol, local regulations, and good Industrial Hygiene practice.
Skin Protection: None required under normal use conditions. For prolonged exposure, use appropriate chemical-resistant gloves if needed to prevent skin contact. In Europe follow EN 374.
Eye Protection: None required under normal use conditions. Wear chemical safety goggles where eye contact is possible. In Europe follow EN 166.
Other: None required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Clear liquid impregnated on a cellulose pad, fabric pad
Odor: Mild alcohol odor.
Odor Threshold: No data available
pH: Not available
Melting Point/Freezing Point: 105°F (41°C) (isopropanol 10% solution)
Boiling Point: 180°F (82°C) @ 760 mmHg
Flash Point: 105.8°F (41°C)
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: 6.551 lb/gal
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: Swallowing may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Swallowing may also cause central nervous system depression with symptoms similar to those described under inhalation.
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

DOT :
14.1 UN Number:
14.2 UN Proper Shipping Name: US DOT- Not Regulated (49CFR173.150(e))
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 IMO Instruments: Not applicable

IMDG:
PACKAGES <=1 KG:
14.1 UN Number:
14.2 UN Proper Shipping Name: LTD QTY
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 IMO Instruments: Not applicable

PACKAGES >1 KG :
14.1 UN Number: UN3175
14.2 UN Proper Shipping Name: Solids containing flammable liquids, n.o.s..(Isopropanol)
14.3 Transport Hazard Class(s): 4.1
14.4 Packing Group: II
14.5 Environmental Hazards: None
14.6 Special Precautions for User: None
14.7 Transport in Bulk According to IMO Instruments: 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 25, 2023: New SDS.

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.

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