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SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Type FO™ Fiber Optic Cleaner/Degreaser Wipe or Towelette Package

Product ID numbers: FO-1

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Fiber and precision cleaning

List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation The Energy Network (Aust) Pty Ltd

11222 - 60th Street North 2B/605 Zillmere Road

Stillwater, MN 55082 USA ZILLMERE, Queensland 4034, Australia

Tel: 1-651-430-2270 (07) 3212 8999

1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

Poisons Information Centre 131 126

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]. Classified as hazardous according to the criteria of New Zealand HSNO and Australian WHS Regulations.

Flam Liq 2 H225 Eye Irrit. 2A H319 STOT SE 3 H336

2.2 Label elements

Pictograms:

Contains: Isopropanol



GHS07

GHS02

Signal word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapor
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

Precautionary Statements:

P210 Keep away from sparks, flames and hot surfaces. No smoking.

P261 Avoid breathing vapor.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P305 + +P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

P338 lenses, if present and easy to do. Continue rinsing.

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

P370 + P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.

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

P501 Dispose of contents according to local regulations.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

 Component
 CAS #
 EC #
 Wt. %

 Isopropanol
 67-63-0
 200-661-7
 100

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes

with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation

occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek

medical attention. If breathing is difficult, provide oxygen. If not breathing, give

artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Do not induce vomiting or give anything by mouth unless directed to do so by

medical personnel. Get medical attention if symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 for more information.

4.3 Indication of immediate medical attention and special treatment needed.

Causes serious eye irritation.

5. Firefighting Measures

5.1 Extinguishing media:

Carbon dioxide, water fog, dry chemical or foam.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition and by-products:

Burning generates carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

Wear appropriate, protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire exposed containers.

5.4 Hazchem code

None allocated.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Limited spill hazard with saturated towel package. For small spills: normal antistatic work clothes are usually adequate.

6.2 Environmental precautions:

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Avoid release to the environment.

6.3 Methods materials for containment and cleaning up:

Collect towel and absorb any excess material with sand or absorbents.

6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area. For industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities

Store in a well-ventilated place. Keep cool. Store away from acids and oxidizing agents.

7.3 Specific end uses

See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits and recommendations:

Isopropanol, 2-propanol (67-63-0)

Country/Source WKS-15 (New Zealand	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
Workplace Standards)	983 mg/m³, 400 ppm	1,230 mg/m ³ , 500 ppm
SWA (Australia)	983 mg/m³, 400 ppm	1,230 mg/m ³ , 500 ppm
USA, OSHA NIOSH	980 mg/m³, 400 ppm	1,225 mg/m ³ , 500 ppm
USA, ACGIH	200 ppm	400 ppm

8.2 Exposure controls

Respiratory protection:

Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH-approved) or use supplied air equipment.

Protective gloves:

For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

Suggested Material: Nitrile Rubber

Suggested Thickness: For short term contact (<15 minutes), splashes use 0.2 mm. For full contact use

0.4 mm

Nitrile, minimum 0.38 mm thickness or comparable protective barrier material with a high performance level for continuous contact use conditions, permeation breakthrough minimum 480 minutes in accordance with CEN standards EN 420 and EN 374.

Eye protection:

Safety glasses recommended.

Other protective equipment:

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. Physical and Chemical

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9.1 Information of basic physical and chemical properties (bulk liquid)

Appearance: Clear, colorless liquid; typical alcohol odor.

Odor threshold: 22 ppm

pH: Does not apply
Freezing point: -130°F / -90°C

Boiling point: 180°F / 82°C

Flash point: 55°F / 13°C (TCC)

Evaporation rate: 1.7 (n-butyl acetate = 1)

Flammability (solid, gas): Not applicable to liquids

Upper/lower flammability or explosive limits:

Vapor pressure:

Vapor density (Air = 1):

LEL: 2%

UEL: 12.7%

4.4 kPa @20°C

2.07 (Air = 1)

Specific gravity ($H_2O = 1$): 0.79 Solubility in water: Complete

Coefficient of Water/Oil

Distribution: 0.1 This product is equally soluble in oil and water.

Auto-ignition temperature:Not availableDecomposition temperature:Not availableViscosity:Not available

9.2 Other Information

Volatiles (Weight %): 100% VOC Content: 790 g/l

10. Stability and Reactivity

10.1 Reactivity:

See remaining headings in Section 10.

10.2 Chemical stability:

Stable

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Avoid heat, flame, and sparks.

10.5 Incompatible materials :

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Carbon dioxide, carbon monoxide,

11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity

Eye contact:

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

Skin contact:

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Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It is not a sensitizer.

Inhalation (Breathing):

Concentrated solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue.

Ingestion:

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

Toxicity to Animals:

Isopropyl Alcohol LD₅₀ (oral rat) 5000 mg/kg

LD₅₀ (dermal rabbit) 12800 mg/kg LC₅₀ (inhl rat) 12000, 8 hours

Chronic Exposure:

Reproductive Toxicity: Not classified as a reproductive system toxin.

Mutagenicity: Not classified as a mutagen.

Teratogenicity: Not classified as teratogenic or embryotoxic.

Specific Target Organ

Toxicity (STOT) No end point data.

Toxicologically Synergistic

Products: Not available.

Carcinogenic Status: This substance has not been identified as a carcinogen or probable

carcinogen by NTP, IARC, or OSHA, nor have any of its components.

12. Ecological Information

12.1 Toxicity:

Ecotoxicity: No information available.

Aquatic Toxicity:

Fish (acute) 96 h LC₅₀ Fathead Minnow > 1000 μ l/l

48 h LC₅₀ Golden Orfe 8970 - 9280 mg/l

Aquatic crustacea (acute) 96 h LC₅₀ Daphnid > 1000 µl/l

12.2 Persistence and degradability:No information available12.3 Bioaccumulation potential:No information available12.4 Mobility in soil:No information available

12.5 Results of PBT and vPvB This product is not, nor does it contain a substance that is a

Assessment: PBT or vPvB.

12.6 Other adverse effects: None known.

13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

14. Transport Information

US DOT Domestic Ground

Transportation: Not Regulated (See Special Provision 47).

UN Number: 3175

UN Proper shipping name: Solids Containing Flammable Liquid, N.O.S., (Contains: Isopropanol)

Transport hazard class(es): Class 4.1

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Packing group:

Environmental hazards: None known **Special precautions:** None known

ICAO/IATA-DGR: Not Regulated (See Special Provision A46)
IMDG: Not Regulated (See Special Provision 216)

Hazchem code: None allocated

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. NZ-Regulations

All chemical substances in this product are listed in the New Zealand Inventory of Chemicals (NZIoC) or are exempt

This substance is to be managed using the conditions specified in an applicable Group Standard **HSR Number**

HSR002528 Flammable Cleaning Products Group Standard

15.1.2. EU-regulations

- Contains no REACH substances with Annex XVII restrictions
- · Contains no substance on the REACH candidate list
- Contains no REACH Annex XIV substances
- Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
- Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council
 of 20 June 2019 on persistent organic pollutants

15.1.3. Australian-regulations

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Safework Australia criteria is based on the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals.

All components are listed on the AICS.

Product is classified as hazardous according to criteria of NOHSC Australia.

15.1.4. International-regulations

All chemical substances in this product are listed as "Active" in the US EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule"). as of Feb. 2019 or are otherwise exempt.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

16. Other Information

Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration

CLP = Classification, Labeling and Packaging Regulation

STOT = Specific Target Organ Toxicity

 LD_{50} = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

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Mixture classification according to Regulation (EC) No 1272/2008: Classification Procedure

H225 Highly flammable liquid and vapor
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness
 Calculation method.
 Calculation method.

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Supersedes: April 20, 2021

Other: New Zealand (NZ), Australia (AU)

Indication of Changes: Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and

Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 including New Zealand and Australia specific information. (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.