Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

# SAFETY DATA SHEET

FW2190 Fiber-Wash(TM) Fiber Optic Cleaner

## **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Identification of the substance or mixture

: FW2190 Fiber-Wash(TM) Fiber Optic Cleaner **Product name** 

**Product type** : Liquid. Company/undertaking identification

: ITW Chemtronics **Manufacturer** 

8125 Cobb Center Drive Kennesaw, GA 30152

Tel. 770-424-4888 or toll free 800-645-5244

**Distributor** 

**Importer** : ITW Contamination Control BV

> Saffierlaan 5 VZ-2132 Hoofddorp The Netherlands

Email: info@itw-cc.com

Tel: +31 88 1307 400 FAX: +31 88 1307 499

e-mail address of person responsible for this SDS

: askchemtronics@chemtronics.com

Emergency telephone number: Chemtrec - 1-800-424-9300 or collect 703-527-3887

(with hours of operation)

#### HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

: Not classified.

See Section 11 for more detailed information on health effects and symptoms.

#### COMPOSITION/INFORMATION ON INGREDIENTS

: Preparation Substance/preparation

Ingredient name	CAS number	%	EC number	Classification	1
propan-2-ol	67-63-0	1 - 8	200-661-7	F; R11 Xi; R36 R67	[1] [2]
3-butoxypropan-2-ol	5131-66-8	1 - 8	225-878-4	Xi; R36/38	[1]
1-methoxy-2-propanol	107-98-2	1 - 8	203-539-1	R10	[2]
See Section 16 for the full text of the R-phrases declared above.					

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

#### FIRST AID MEASURES

#### First-aid measures

Inhalation

: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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#### 4. FIRST AID MEASURES

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eve contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Protection of first-aiders Notes to physician

- : No action shall be taken involving any personal risk or without suitable training.
- : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See Section 11 for more detailed information on health effects and symptoms.

#### 5. FIRE-FIGHTING MEASURES

#### **Extinguishing media**

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known

Special exposure hazards

: In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### 7. HANDLING AND STORAGE

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Packaging materials** 

Recommended

: Use original container.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limit values** 

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#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredient name** Occupational exposure limits

ACGIH TLV (United States, 1/2007). propan-2-ol

> STEL: 400 ppm 15 minute(s). TWA: 200 ppm 8 hour(s).

EU OEL (Europe, 5/2006). Skin Notes: Indicative 1-methoxy-2-propanol

short term: 568 mg/m3 15 minute(s). short term: 150 ppm 15 minute(s). 8 hours: 375 mg/m³ 8 hour(s). 8 hours: 100 ppm 8 hour(s).

procedures

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Exposure controls**

Occupational exposure controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** 

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **General information**

**Appearance** 

**Physical state** : Liquid.

Colour : Colourless. [Light]

: Pleasant, ester-like. [Slight] Important health, safety and environmental information

**Boiling point** : 100°C (212°F)

: May start to solidify at the following temperature: -0.1°C (31.8°F) This is based on data **Melting point** 

for the following ingredient: WATER. Weighted average: -8.75°C (16.3°F)

Flash point : Closed cup: >100°C (212°F). Vapour pressure : 0.7 kPa (5 mm Hg) (at 20°C) : Weighted average: 0.85 (Water = 1) Relative density

Vapour density : Highest known value: 3.11 (Air = 1) (1-Methoxy-2-propanol). Weighted average: 2.59

(Air = 1)

**Evaporation rate (butyl** 

acetate = 1)

: <1 compared with butyl acetate

**Other information** 

**Auto-ignition temperature** : Lowest known value: 399.05°C (750.3°F) (propan-2-ol).

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#### 10. STABILITY AND REACTIVITY

The product is stable. Under normal conditions of storage and use, hazardous **Stability** 

polymerisation will not occur.

Conditions to avoid : No specific data. : No specific data. Materials to avoid

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### 11. TOXICOLOGICAL INFORMATION

#### Potential acute health effects

Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion **Skin contact** : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Eve contact** 

**Acute toxicity** 

Product/ingredient name propan-2-ol	Result LD50 Dermal	Species Rabbit	<b>Dose</b> 12800 mg/kg	Exposure -
	LD50 Intraperitoneal	Rat	2735 mg/kg	-
	LD50 Intravenous	Rat	1088 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	TDLo Intraperitoneal	Rat	800 mg/kg	-
3-Butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-
••	LD50 Oral	Rat	5660 uL/kg	-
1-Methoxy-2-propanol	LD50 Intraperitoneal	Rat	3720 mg/kg	-
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Intravenous	Rat	4200 mg/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
	LD50 Subcutaneous	Rat	7800 mg/kg	-
	LDLo Oral	Rat	3739 mg/kg	-

#### Potential chronic health effects

**Chronic effects** : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Mutagenicity **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

## Over-exposure signs/symptoms

Inhalation : No specific data. Ingestion : No specific data. Skin : No specific data. Eyes : No specific data.

**Target organs** : Contains material which causes damage to the following organs: upper respiratory

tract, skin, central nervous system (CNS), eye, lens or cornea.

#### 12. ECOLOGICAL INFORMATION

**Environmental effects** : No known significant effects or critical hazards.

Aquatic ecotoxicity				
Product/ingredient name propan-2-ol	Test -	Result Acute LC50 11130000 ug/L Fresh water	Species Fish - Fathead minnow - Pimephales promelas	<b>Exposure</b> 96 hours
	-	Acute LC50 10400000 to 10600000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	-	Acute LC50 9640000 to 10000000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	-	Acute LC50 6550000 to 7450000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
	-	Acute LC50 4200000 ug/L	Fish - Harlequinfish, red	96 hours

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#### 12. ECOLOGICAL INFORMATION

Fresh water rasbora - Rasbora

heteromorpha

Acute LC50 >1400000 ug/L

Marine water

Fish - Western mosquitofish -

96 hours

Acute LC50

Gambusia affinis

Crustaceans - 48 hours

Crangon crangon

1400000 to Common shrimp, 1950000 ug/L sand shrimp -

Conclusion/Summary

: Not available.

**Biodegradability** 

Conclusion/Summary : Not available.

Other adverse effects : No known significant effects or critical hazards.

#### 13. DISPOSAL CONSIDERATIONS

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

#### 14. TRANSPORT INFORMATION

#### International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	Not regulated.	-	-	-		-
ADN/ADNR Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA Class	Not regulated.	-	-	-		-

PG\*: Packing group

#### 15. REGULATORY INFORMATION

#### EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Risk phrases : This product is not classified according to EU legislation.

Product use : Industrial applications.

**Europe inventory**: **Europe inventory:** Not determined.

Other EU regulations

Additional warning phrases : Safety data sheet available for professional user on request.

#### **16. OTHER INFORMATION**

Full text of R-phrases referred to in sections 2 and 3 - Europe

R11- Highly flammable. R10- Flammable.

R36- Irritating to eyes.

R36/38- Irritating to eyes and skin. R67- Vapours may cause drowsiness and dizziness.

Ro7- vapours may cause drowsiness and dizziness
sifications : F - Highly flammable

Full text of classifications referred to in sections 2 and

Xi - Irritant

3 - Europe

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#### **16. OTHER INFORMATION**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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