

FT-2000-CI

SAFETY DATA SHEET

Version: 1.0
Revision Date: 6/17/2015
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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: FT-2000-CI
Brand: Fluid Technology Service International, L.L.C.; FT-2000-CI

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: See Technical Data Sheet.
Application Method: See Technical Data Sheet.

1.3 Details of the supplier of the safety data sheet

Company: Fluid Technology Service International, L.L.C.
P.O. Box 1702
Scott, LA 70583
Telephone: +1 337-291-9952
Fax: +1 337-264-9493

1.4 Emergency telephone number

Emergency Phone #: Chemtrek 800-424-9300 (24 Hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Acute Tox. 5;H303	May be harmful if swallowed. (Not adopted by US OSHA)
Acute Tox. 4;H332	Harmful if inhaled.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 1B;H350	May cause cancer.
STOT SE 3;H335	May cause respiratory irritation.
Aquatic Chronic 2;H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

H303 May be harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H350 May cause cancer.
H411 Toxic to aquatic life with long lasting effects.

(Prevention):

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection / face protection.

(Response):

- P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P308+313 IF exposed or concerned: Get medical advice / attention.
- P321 Specific treatment (see information on this label).
- P331 Do NOT induce vomiting.
- P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
- P337+313 If eye irritation persists: Get medical advice / attention.
- P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.

[Storage]:

- P403+233 Store in a well ventilated place. Keep container tightly closed.
- P405 Store locked up.

[Disposal]:

- P501 Dispose of contents / container in accordance with local / national regulations .

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. residues CAS Number: 0068909-77-3	10-25	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	[1]
Hydrazine CAS Number: 0000302-01-2	1.0-10	Flam. Liq. 3; H226 Carc. 1B; H350 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	[1] [2]
Glutaraldehyde CAS Number: 0000111-30-8	1.0-10	Acute Tox. 3; H331 Acute Tox. 3; H301 Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Acute 1; H400	[1] [2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	Do not induce vomiting or give anything by mouth. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Inhalation: This product may cause irritation to nose, throat, and respiratory tract if exposure is excessive.

Skin Contact: This product may cause irritation to the skin. Defatting of the skin can occur with frequent or long-term skin contact.

Eye Contact: Irritation to eyes.

Ingestion: There may be irritation of the mouth, throat, and digestive tract.

Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure. See section 2 for further details.

Inhalation	Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eyes	Causes serious eye irritation.
Skin	May cause an allergic skin reaction. Causes skin irritation.
Ingestion	May be harmful if swallowed.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray. Do not use: water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Smoke, carbon oxides. Avoid breathing dust / fume / gas / mist / vapors / spray. Do not get in eyes, on skin, or on clothing.

5.3. Advice for fire-fighters

None

ERG Guide No.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Use proper personal protective equipment. Stay upwind and away from spill. Keep all sources of ignition and hot metal surfaces away from spill. If spill is indoors, ventilate area. Use sand or other inert material to contain and soak up spill.

Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling, do not eat, drink, or smoke. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Nodata available.

Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area. Keep away from sources of ignition. Avoid strong oxidizing agents.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control Parameters

Exposure

CAS No.	Ingredient	Source	Value
0000111-30-8	Glutaraldehyde	OSHA	No Established Limit
		ACGIH	Ceiling: 0.05 ppmS
		NIOSH	C 0.2 ppm (0.8 mg/m ³)
		Supplier	No Established Limit
0000302-01-2	Hydrazine	OSHA	TWA 1 ppm (1.3 mg/m ³) [skin]
		ACGIH	TWA : 0.01 ppm Skin 2B
		NIOSH	Ca C 0.03ppm (0.04 mg/m ³) [2-hour]
		Supplier	No Established Limit
0068909-77-3	Ethanol, 2, 2'-oxybis-, reaction products with ammonia, morpholine derivs. residues	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000111-30-8	Glutaraldehyde	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4 : No;
0000302-01-2	Hydrazine	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: Yes
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0068909-77-3	Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine denvs. residues	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a : No; Group 2b: No; Group 3: No; Group 4: No;

8.2 Exposure controls

Respiratory	Use appropriate respiratory protection when handling or in case of insufficient ventilation.
Eyes	Goggles recommended.
Skin	Impermeable gloves and impervious clothing as appropriate.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. – [Prevention]:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odor	Not provided
Odor threshold	Not determined
pH	Not measured
Melting point freezing point	Not measured
Initial boiling point and boiling range	Not measured
Flash Point	Not measured
Evaporation rate (Ether = 1)	Not measured
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	Not Measured
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured

9.2 Other Information

No other relevant information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Hazardous Polymerization will not occur.

10.2 Chemical stability

Stable under normal circumstances.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid.

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Smoke, carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION
Acute Toxicology

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation, Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Ethanol, 2, 2'-oxybis-,reaction products with ammonia, morpholine derivs. Residues – (68909-77-3)	No data available	No data available	No data available	No data available	No data available
Hydrazine – (302-01-2)	No data available	No data available	No data available	No data available	No data available
Glutaraldehyde – (111-30-8)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute Toxicity (oral)	5	May be harmful if swallowed. (Not adopted by US OSHA)
Acute Toxicity (dermal)	---	Not Applicable
Acute Toxicity (inhalation)	4	Harmful if inhaled
Skin Corrosion/irritation	2	Causes serious eye irritation.
Respiratory sensitization	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not applicable.
Carcinogenicity	1B	May cause cancer.
Reproductive toxicity	---	Not applicable.
STOT-single exposure	3	May cause respiratory irritation.
STOT-repeated exposure	---	Not applicable
Aspiration hazard	---	Not applicable

SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity

Toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Ethanol, 2, 2'-oxybis-,reaction products with ammonia, morpholine derivs. Residues – (68909-77-3)	Not available.	Not available.	Not available.
Hydrazine – (302-01-2)	Not available.	Not available.	Not available.
Glutaraldehyde – (111-30-8)	Not available.	Not available.	Not available.

12.2 Persistence and degradability

There is no data available on the preparation itself.

12.3 Bioaccumulative potential

Not measured

12.4 Mobility in soil

Not data available

12.5 Results of PBT and vPvB assessment.

This product contains no PBT/vPvB chemicals.

12.6 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Observe all federal, state, and local regulations when disposing of this substance.

SECTION 14: TRANSPORT INFORMATION

Not provided.

SECTION 15: REGULATORY INFORMATION

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2A
US EPA Tier II Hazards	Fire: No Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): Yes
EPCRA 311/312 Chemicals and RQs (lbs.):	Hydrazine (1.00)
EPCRA 302 Extremely Hazardous:	Hydrazine
EPCRA 313 Toxic Chemicals:	Hydrazine
Proposition 65 – Carcinogens (>0.0%):	Hydrazine
Proposition 65 – Developmental Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 – Female Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 – Male Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
New Jersey RTK Substances (>1%):	Glutaraldehyde Hydrazine
Pennsylvania RTK Substances (>1%):	Glutaraldehyde Hydrazine

SECTION 16: OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H350 May cause cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

This is the first version in the GHS SOS format. Listings of changes from previous versions in other formats are not applicable.

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Preparation Information

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