

Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

FT-31, Denatonium Benzoate Sensitivity Solution

Product Identification Numbers 70-0707-0965-7

1.2. Recommended use and restrictions on use

Recommended use

Sensitivity Test Solution.

1.3. Supplier's details	
MANUFACTURER:	3M
DIVISION:	Personal Safety Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.2. Label elements

Signal word Not applicable.

Symbols Not applicable.

Pictograms Not applicable.

2.3. Hazards not otherwise classified None.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	90 - 100 Trade Secret *
SODIUM CHLORIDE	7647-14-5	3 - 10 Trade Secret *
DENATONIUM BENZOATE	3734-33-6	0 - 1 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

No need for first aid is anticipated.

Eye Contact: No need for first aid is anticipated.

If Swallowed:

No need for first aid is anticipated.

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

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. Non-combustible. Use a fire fighting agent suitable for surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Observe precautions from other sections.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Clean up residue with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. Engineering controls No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection No chemical protective gloves are required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties General Physical Form: Liquid

Odor, Color, Grade:

Odor threshold pH Melting point Boiling Point Flash Point

Flammability (solid, gas) Flammable Limits(LEL) Flammable Limits(UEL) Vapor Pressure

Vapor Density

Clear, odorless solution with a bitter taste. Freezing point = -4 degrees Centigrade *No Data Available* Approximately 6.52 Units not avail. or not appl. *Not Applicable* >=212 °F No flash point

Not Applicable Not Applicable Not Applicable 18 mmHg [@ 20 °C]

Not Applicable

Density Specific Gravity

Solubility in Water Solubility- non-water

Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature 1.034 g/ml 1.034 [*Ref Std:* WATER=1]

Complete No Data Available

No Data Available Not Applicable No Data Available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid None known.

10.5. Incompatible materials None known.

10.6. Hazardous decomposition products

Substance

None known.

Condition Not Specified

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

No health effects are expected.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Route	Species	Value
Ingestion		No data available; calculated ATE > 5,000 mg/kg
Dermal	Rabbit	LD50 > 10,000 mg/kg
Inhalation-	Rat	LC50 > 10.5 mg/l
Dust/Mist		
(4 hours)		
Ingestion	Rat	LD50 3,000 mg/kg
Inhalation-		LC50 estimated to be 1 - 5 mg/l
Dust/Mist		
Dermal	Rat	LD50 > 2,000 mg/kg
Ingestion	Rat	LD50 584 mg/kg
	Ingestion Dermal Inhalation- Dust/Mist (4 hours) Ingestion Inhalation- Dust/Mist Dermal	Ingestion Dermal Rabbit Inhalation- Rat Dust/Mist (4 hours) Ingestion Rat Inhalation- Dust/Mist Dust/Mist Dermal

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
DENATONIUM BENZOATE	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
DENATONIUM BENZOATE	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Overall product	Guinea	Not sensitizing
	pig	
DENATONIUM BENZOATE	Human	Some positive data exist, but the data are not sufficient for classification

Respiratory Sensitization

Name	Species	Value
DENATONIUM BENZOATE	Human	Some positive data exist, but the data are not
		sufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
DENATONIUM BENZOATE	In Vitro	Not mutagenic
DENATONIUM BENZOATE	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
DENATONIUM BENZOATE	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmenta	l Effects					
Name	Route	Value	Species	Test Result	Exposure	

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					Duration
DENATONIUM BENZOATE	Ingestion	Not toxic to female reproduction	Rat	NOAEL 16	2 years
				mg/kg/day	
DENATONIUM BENZOATE	Ingestion	Not toxic to male reproduction	Rat	NOAEL 16	2 years
				mg/kg/day	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

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	Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ľ							

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
DENATONIUM BENZOATE	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 16 mg/kg/day	2 years
DENATONIUM BENZOATE	Ingestion	heart bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system	All data are negative	Rat	NOAEL 16 mg/kg/day	2 years

Aspiration Hazard

Spiration Mazara							
Name	Value						

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Product components have been assessed to be treatable in properly operating wastewater treatment systems (industrial, municipal, commercial) with a minimum of biological (aerobic) secondary treatment. Waste product may be directly discharged to wastewater treatment systems. Changes in the manner of which a product is used will require an evaluation to determine proper disposal. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit <u>http://3M.com/Transportinfo</u> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 0 Flammability: 0 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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