

MATERIAL SAFETY 3M  
 DATA SHEET 3M Center  
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DIVISION: OCCUPATIONAL HEALTH & ENVIRON. SAFETY  
 TRADE NAME:

FT-32, Denatonium Benzoate Fit Test Solution

ID NUMBER/U.P.C.:

70-0707-0966-5 +H-44446-99750-0 78-8113-5576-3 - - -

ISSUED: June 21, 1999

SUPERSEDES: April 09, 1997

DOCUMENT: 07-6218-7

1. INGREDIENT	C.A.S. NO.		PERCENT
Water.....	7732-18-5	80	- 100
Sodium Chloride.....	7647-14-5	3	- 7
Denatonium Benzoate.....	3734-33-6	0	- 1

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 2. PHYSICAL DATA  
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BOILING POINT:..... N/A  
 VAPOR PRESSURE:..... N/A  
 VAPOR DENSITY:..... N/A  
 EVAPORATION RATE:..... N/A  
 SOLUBILITY IN WATER:..... complete  
 SPECIFIC GRAVITY:..... 1.034 Water=1  
 PERCENT VOLATILE:..... N/A  
 pH:..... ca. 6.52  
 VISCOSITY:..... N/A  
 MELTING POINT:..... N/A

APPEARANCE AND ODOR:  
 Liquid, Clear, odorless solution with a bitter taste. Freezing point  
 = -4 degrees Centigrade.

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 Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately  
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3. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT:..... N/A  
FLAMMABLE LIMITS - LEL:..... N/A  
FLAMMABLE LIMITS - UEL:..... N/A  
AUTOIGNITION TEMPERATURE:..... N/A

EXTINGUISHING MEDIA:  
Not applicable

SPECIAL FIRE FIGHTING PROCEDURES:  
Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
None known.

NFPA HAZARD CODES: HEALTH: 0 FIRE: 0 REACTIVITY: 0  
UNUSUAL REACTION HAZARD: none

OSHA FIRE HAZARD CLASS: Not applicable

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4. REACTIVITY DATA  
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STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
None known.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:  
None known.

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5. ENVIRONMENTAL INFORMATION  
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SPILL RESPONSE:  
Observe precautions from other sections. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

RECOMMENDED DISPOSAL:  
Small quantities (less than 5 gal.(19 L)) may be discharged to a wastewater treatment system. For larger quantities: Incinerate in an industrial or commercial facility in the presence of a combustible material.

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5. ENVIRONMENTAL INFORMATION (continued)  
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ENVIRONMENTAL DATA:  
Not determined.

REGULATORY INFORMATION:  
Volatile Organic Compounds: N/A.  
VOC Less H2O & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

EPCRA HAZARD CLASS:  
FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: No CHRONIC: No

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6. SUGGESTED FIRST AID  
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EYE CONTACT:  
No need for first aid is anticipated.

SKIN CONTACT:  
No need for first aid is anticipated.

INHALATION:  
No need for first aid is anticipated.

IF SWALLOWED:  
No need for first aid is anticipated.

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7. PRECAUTIONARY INFORMATION  
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EYE PROTECTION:  
Not applicable.

SKIN PROTECTION:  
Not applicable.

RECOMMENDED VENTILATION:  
Not applicable.

RESPIRATORY PROTECTION:  
Avoid prolonged breathing of spray or mists.

PREVENTION OF ACCIDENTAL INGESTION:  
Do not ingest.

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7. PRECAUTIONARY INFORMATION (continued)  
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RECOMMENDED STORAGE:

Store at room temperature. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
Water.....	NONE	NONE	NONE	NONE	
Sodium Chloride.....	NONE	NONE	NONE	NONE	
Denatonium Benzoate.....	NONE	NONE	NONE	NONE	

\* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- NONE: None Established

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8. HEALTH HAZARD DATA  
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EYE CONTACT:

No adverse health effects are expected from eye contact.

SKIN CONTACT:

No adverse health effects are expected from skin contact.

INHALATION:

No adverse health effects are expected from inhalation exposure.

IF SWALLOWED:

No adverse health effects are expected from swallowing.

Denatonium Benzoate is a very bitter chemical used in many consumer products as an aversive agent against child ingestion.

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SECTION CHANGE DATES  
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INGREDIENTS SECTION CHANGED SINCE April 09, 1997 ISSUE

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