

MATERIAL SAFETY DATA SHEET

MSDS2225

1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: 2041-12K
 Nomenclature: Bitrex Fit Test Solution # 2
 Company Name: Allegro Industries
 Address: 7221 Oranewood Avenue
 Garden Grove, CA 92841
 714-899-9855
 Chemtrac: 800-424-9300

NFPA Code
 H 1
 F 1
 R 1
 O None

2. COMPOSITION

Chemical Name: Ammonium Benzoate
 Chemical Family: Carboxylic Acids
 Synonyms: Benzenemethanamium, Bittering Agent
 Molecular Weight: 446.57
 Molecular Formula: C₂₈H₃₄N₂O₃

Ingredient:	Benzoate	Sodium Chloride	Water
CAS Number:	3734-33-6	7647-14-5	N/A
Percent:	0.16850%	4.99160%	94.83990%

3. HAZARDS IDENTIFICATION

Physical Dangers: Stable
 Chemical Dangers: Stable. Materials/conditions to avoid: None known
 Routes of Exposure: Ingestion, Inhalation, absorption
 Target Organs: No significant target effect reported.
Health Hazards:
 Inhalation: No adverse health effects are expected. Avoid prolonged breathing of mist
 Skin Contact: No need for first aid anticipated
 Eye Contact: No need for first aid anticipated
 Ingestion: Profuse bad taste. Taste Antidote: Chocolate (Do not ingest)
 Chronic Exposure: No information available.
 Acute Exposure: Unknown
 Aggravation of Pre-Ex.Cond: None Known. Denatonium Benzoate is a very bitter chemical used in many consumer products as an aversive agent against child ingestion

4. FIRST AID MEASURES

Inhalation: N/A. No adverse health effects are expected
 Skin Contact: The affected area should be thoroughly washed with soap and water.
 Eye Contact: Flush immediately with cold water.
 Ingestion: Administer water or milk to dilute.

5. FIRE FIGHTING MEASURES

Fire Hazards: No fire hazard
 Fire Extinguisher: N/A
 Explosion: May liberate CO NOx.
 Flash Point: N/A
 Volatile (% by volume): N/A
 Exp. Limits (Vol % in air): N/A
 Auto Ignition Temperature: N/A

6. ACCIDENTAL RELEASE MEASURES

Procedure for spill/leak: Absorb spills with vermiculite or other suitable absorbent material and remove to an approved disposal container.
 Waste Disposal: Keep out of water supplies and sewers. Dispose of in accordance with current laws and regulations.

7. HANDLING AND STORAGE

Storage: Store in tight containers in a cool dry place away from light and heat. (Room temperature)
 Self Life: 2 Years
 PPE: N/A
 Notes: None

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8. EXPOSURE CONTROLS

Inhalation:	Respiratory protection is normally not required. No adverse health effects are expected from inhalation exposure	
Skin:	No adverse health effects are expected.	
Eye:	No adverse health effects are expected.	
Ingestion:	Do not ingest.	
Ventilation:	Ventilation meeting ACGIH standard should be employed.	
Engineering Controls:	N/A	
Work/Hygienic Practices:	Use good personal hygiene practices. Wash after any contact.	
Exposure Limits:	N/A	
Chemical:	Benzoate	Sodium Chloride
TLV (ACGIH TLV)	None Established	None listed
PEL (OSHA PEL):	None Established	None listed
IDLH	None Established	None listed
Control Parameter:	Wash after any contact. Thoroughly wash any contaminated clothing or shoes before reuse.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Color/Appearance/Odor:	Clear odorless liquid, extreme bitter taste.
Boiling Point	N/A
Melting Point	163 - 170 °C
Specific Gravity (H ₂ O=1):	N/A
Refractive Index:	N/A
Relative Density:	N/A
Evaporative Rate:	N/A
Water Content:	95%
Vapor Density(Air-1):	N/A
Vapor Pressure:	N/A
Solubility in Water:	1:20

10. STABILITY AND REACTIVITY

Conditions to avoid:	This material presents no significant reactivity hazard. Hazardous polymerization will not occur and it will not react violently with water. Stable at normal temperature and pressure.
Materials to avoid	Contact with highly reactive chemical oxidants should be avoided.

11. TOXICOLOGICAL INFORMATION

Health effects:	No information available on significant adverse effects.
Oral LD50:	612 mg/kg/ (rat)
Dermal LD50:	N/A
Human Lethal Dose:	N/A
Notes:	Carcinogenicity not listed.

12. ECOLOGICAL INFORMATION

No Information available

13. DISPOSAL CONSIDERATIONS

No Information available.

14. TRANSPORT INFORMATION

Proper shipping name:	Denatonium Benzoate
Transport Emergency Card:	N/A
Packing Group:	N/A
UN Number:	N/A
Reportable Quantity	N/A
Notes:	None

15. REGULATORY INFORMATION

TSCA Registered:	TSCA 12 (b) Export notification - Not Listed. CAS# 7647-145 is listed on the TSCA inventory	RTECS:	N/A
FDA Approved:	N	EC Number (EINECS):	223-095-2
California Proposition 65:	N		
ICSC:	N/A		

16. OTHER INFORMATION

No other information available.

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