

SDS041

Bitrex Qualitative Fit Test Apparatus

SAFETY DATA SHEET

Identification

LABEL IDENTIFIER: Bitrex Qualitative Fit Test Apparatus

PRODUCT IDENTIFIER: P/N 697444, Bitrex Qualitative Fit Test Apparatus

P/N 697445, Solution, Sensitivity, for Bitrex Qualitative Fit Testing P/N 697446, Solution, Fit Test, for Bitrex Qualitative Fit Testing

COMPANY IDENTIFICATION: MSA Safety Incorporated

1000 Cranberry Woods Drive Cranberry Township, PA 16066

CUSTOMER SERVICE: 1-800-MSA-2222 (8:00 a.m. - 5:00 p.m., USA local time)

EMERGENCY: 1-800-255-3924 (CHEM-TEL, INC.)

Supplier Information

Two (2) Safety Data Sheets for Bitrex Qualitative Fit Test Apparatus as furnished by Allegro Industries are attached. (Bitrex Sensitivity Solution, P/N 2041-11K, Bitrex Test Solution #2, P/N 2041-12K) - (5 Pages each)

Allegro Industries. SDS REVISION DATE: P/N 2041-11K 04/24/2015

SDS REVISION DATE: P/N 2041-12K 04/24/2015

Other Information

WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. MSA Safety makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.

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1. IDENTIFICATION AND GENERAL INFORMATION

P/N#: **2041-11K**

Nomenclature: Bitrex Fit Sensitivity Solution #1 Recommended Use of the Chemical & Restrictions on Use:

Uses: Laboratory chemicals, Manufacture of substances

Company Name: Allegro Industries
Address: 1360 Shiloh Church Rd
Piedmont, SC 29673
864-846-8740
Chemtrac: 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION

Substances

 $Synonyms:\ N,N-Diethyl-N-[(2,6-dimethylphenylcarbamoyl)methyl] benzylammonium\ benzoate$

Benzyldiethyl(2,6-xylylcarbamoylmethyl)ammonium benzoate

Formula: C28H34N2O3

Molecular

Weight: 446.58 g/mol CAS-No.: 3734-33-6 EC-No.: 223-095-2

Hazardous Components

Component	Classification	Concentration
Denatonium benzoate	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A;	-
	STOT SE 3; H302, H315, H319, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE FIGHTING MEASURES

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx)

Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Further information: no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s): Apart from the uses mentioned in section 1 no other specific uses are stipulated

EXPOSURE CONTROLS

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved Eye/face protection:

under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after

use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to

the concentration and amount of the dangerous substance at the specific workplace.

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type Respiratory protection:

OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Form: solid Odor: no data available Odor Threshold: no data available pH: no data available

Melting point/freezing point: Melting point/range: 164 - 168 °C (327 - 334 °F) - lit.

no data available

Initial boiling point and

boiling range: no data available Flash point: no data available Evaporation rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or

no data available explosive limits: Vapor pressure: no data available Vapor Density: no data available no data available Relative density: Water solubility: no data available

Partition coefficient:

Other safety information:

n- octanol/water: no data available Auto-ignition temperature: no data available no data available Decomposition temperature: Viscosity: no data available Explosive properties: no data available no data available Oxidizing properties:

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10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: no data available
Conditions to avoid: Avoid moisture
Incompatible materials: Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 584 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Behavioral:Ataxia.

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage

/eye irritation: no data available

Respiratory or skin

sensation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity

- single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity

repeated exposure: no data available
 Aspiration hazard: no data available
 Additional Information: RTECS: BO6650000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity: no data available
Persistence and degradability: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available

Results of PBT and vPvB

assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste

disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No. Revision Date

Denatonium benzoate 3734-33-6

New Jersey Right To Know Components

CAS-No. Revision Date

Denatonium benzoate 3734-33-6

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.:Acute toxicityEye Irrit.:Eye irritationH302:Harmful if swallowedH315:Causes skin irritationH319:Causes serious eye irritationH335:May cause respiratory irritation

Skin Irrit.: Skin irritation

NFPA HMIS

 Health hazard:
 2
 Health hazard:
 2

 Fire Hazard:
 0
 Chronic Health Hazard:
 0

 Reactivity Hazard:
 0
 Flammability:
 0

 Physical Hazard:
 0

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IDENTIFICATION AND GENERAL INFORMATION

P/N#: 2041-12K

Nomenclature: Bitrex Fit Test Solution #2 Recommended Use of the Chemical & Restrictions on Use:

Laboratory chemicals, Manufacture of substances Uses:

Company Name: Allegro Industries Address: 1360 Shiloh Church Rd Piedmont, SC 29673

864-846-8740 Chemtrac: 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling. P264

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell. P312 P321

Specific treatment (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION

Substances

 $Synonyms:\ N,N-Diethyl-N-[(2,6-dimethylphenylcarbamoyl)methyl] benzylammonium\ benzoate$

Benzyldiethyl(2,6-xylylcarbamoylmethyl)ammonium benzoate

Formula: C28H34N2O3

Molecular

Weight: 446.58 g/mol CAS-No.: 3734-33-6 EC-No.: 223-095-2

Hazardous Components

Component	Classification	Concentration
Denatonium benzoate	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A;	-
	STOT SE 3; H302, H315, H319, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE FIGHTING MEASURES

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx)

Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Further information: no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s): Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. EXPOSURE CONTROLS

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved

under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after

use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to

the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type

OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Form: solid
Odor: no data available
Odor Threshold: no data available
pH: no data available

 $\label{eq:Melting point/range: 164 - 168 °C (327 - 334 °F) - lit.} \\ \text{Melting point/range: 164 - 168 °C (327 - 334 °F) - lit.}$

no data available

Initial boiling point and

boiling range: no data available
Flash point: no data available
Evaporation rate: no data available
Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits: no data available
Vapor pressure: no data available
Vapor Density: no data available
Relative density: no data available
Water solubility: no data available

Partition coefficient:

Other safety information:

n- octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Explosive properties:
Oxidizing properties:
no data available
no data available
no data available

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10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous

reactions: no data available
Conditions to avoid: Avoid moisture
Incompatible materials: Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 584 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Behavioral:Ataxia.

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage

/eye irritation: no data available

Respiratory or skin

sensation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity

- single exposure: Inhalation - May cause respiratory irritation.

Specific target organ toxicity

repeated exposure: no data available
 Aspiration hazard: no data available
 Additional Information: RTECS: BO6650000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity: no data available
Persistence and degradability: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available

Results of PBT and vPvB

assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste

disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No. Revision Date

Denatonium benzoate 3734-33-6

New Jersey Right To Know Components

CAS-No. Revision Date

Denatonium benzoate 3734-33-6

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.:Acute toxicityEye Irrit.:Eye irritationH302:Harmful if swallowedH315:Causes skin irritationH319:Causes serious eye irritationH335:May cause respiratory irritation

Skin Irrit.: Skin irritation

NFPA HMIS

 Health hazard:
 2
 Health hazard:
 2

 Fire Hazard:
 0
 Chronic Health Hazard:
 0

 Reactivity Hazard:
 0
 Flammability:
 0

 Physical Hazard:
 0

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