

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 **Product identifiers**

1.2

1.3

Product name	: Bitrex Test Solution		
Product Number Company name CAS-No.	: 050401 : Moldex-Metric AG& Co KG : 3734-33-6		
Relevant identified uses of the substance or mixture and uses advised again			
Identified uses	: Fit Test Solution		
Details of the supplier of the safety data sheet			
Company	: Moldex-Metric AG & Co. KG Tübingerstr.50 72141 Walddorfhäslach		

		Germany
Telephone	:	+49 7127-8101-02
Fax	:	+49 7127-8101-48
E-mail address	:	info@moldex-europe.com

# 1.4 Emergency telephone number

Emergency Phone # : +49 7127-8101-02

#### 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

#### Classification according to EU Regulation 1272/2008

# 2.2 Label elements

Dangerous substances according to EU Regulation 1272/2008

Symbols -none Contains - non hazardous ingredients Risk phrases - none Safety phrases - P271 use only in well ventilated areas

### 2.3 Other hazards - none known

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

#### Synonyms

# : N,N-Diethyl-N-[(2,6dimethylphenylcarbamoyl)methyl]benzylammonium benzoate /

		Denatonium benzoate		
Formula Molecular Weight	:	C <sub>28</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub> 446,58g/mol		
Ingredients	CAS-No.	ËC-No.	Concentration	Classification
Water Sodium Chloride Benzoate	 7647-14-5 3734-33-6	 231-598-3 223-095-2	94,831% 5,0% 0,169%	H332,H302,H318 (self classified)

Please see Section 16 for full text of any H statements referred in this section



# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

# Inhalation

No need for first aid is anticipated.

#### Skin contact

Wash off with soap and plenty of water. If signs/ symptoms develop, get medical attention.

### Eye contact

Rinse thoroughly with plenty of water. If signs/ symptoms persists, get medical attention

#### If swallowed

No need for first aid is anticipated.

#### Ingestion

Profuse bad taste, no health effects are expected.

- **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 needed** Not applicable

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Material will not burn

5.2 Special hazards arising from the substance or mixture No fire hazard

#### 5.3 Advice for firefighters

No unusual fire hazards are anticipated.

# 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Avoid breathing dust.

### 6.2 Environmental precautions Avoid release to the environment.

- **6.3** Methods and materials for containment and cleaning up Clean up residue with detergent and water. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling For industrial or professional use only.
- **7.2 Conditions for safe storage, including any incompatibilities** No special storage required.
- **7.3 Specific end uses** The use by date of the manufactured solution is 5 years.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters Occupational exposure limits

No occupational exposure limit values exist for the components listed in Section 3.



#### 8.2 **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 None required

# Skin protection

None required

#### **Respiratory Protection** None required

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

- Appearance liquid
- Odour clear odourless solution with bitter taste
- Odour threshold no data available .
- no data available bН
- Melting point/ freezing point no data available •
- Initial boiling point and boiling range no data available
- Flash point •
- Evaporation rate
- Flammability •
- Explosive limits •
- Vapour pressure •
- •
- Vapour density not applicable
- 1.034 Relative density
- Water solubility complete • Partition coefficient: •
- n-octanol/water • Autoignition temperature
- Decomposition temperature •

Explosive properties

- Viscosity •
- no data available not applicable not applicable no data available not applicable not applicable

no data available

no data available

not applicable

not applicable

not applicable

Oxidizing

#### 9.2 Other safety information None known

#### 10. **STABILITY AND REACTIVITY**

#### 10.1 Reactivity

- Not applicable
- 10.2 **Chemical stability** Stable
- Possibility of hazardous reactions 10.3 None known
- Conditions to avoid 10.4 None known
- 10.5 Incompatible materials None known



# 10.6 Hazardous decomposition products Other decomposition products - not applicable

#### 11. **TOXICOLOGICAL INFORMATION**

#### Information on toxicological effects 11.1

# Acute toxicity

Denatonium benzoate: LD50 Oral - rat - 584 mg/kg LD50 Dermal -rat- >2000mg/kg Skin corrosion/irritation No data available

#### Serious eye damage/eye irritation No data available

#### Respiratory or skin sensitization No data available

Germ cell mutagenicity Not mutagenic

Carcinogenicity

Not carcinogenic

# **Reproductive toxicity**

No test data available

#### Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

# **Aspiration hazard**

Not an aspiration hazard

# Signs and Symptoms of Exposure

Potential health effects:

Inhalation	no health effects are expected. Persons with Asthma or breathing difficulties should
	seek further medical advice
Ingestion	no health effects are expected
Skin	contact to the skin during product use is not expected to result in significant irritation
Eyes	contact to the eyes during product use is not expected to result in significant irritation

#### 12. **ECOLOGICAL INFORMATION**

- 12.1 Toxicity Not acutely toxic to aquatic life by GHS criteria
- Persistence and degradability 12.2 No test data available
- 12.3 **Bioaccumulative potential** No test data available
- 12.4 Mobility in soil No test data available
- 12.5 Results of PBT and vPvB assessment No test data available
- 12.6 Other adverse effects No test data available



# 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

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

14.	TRANSPO	<b>RT INFORMATION</b>		
14.1	<b>UN numbe</b> ADR/RID:	-	IMDG: -	IATA: -
14.2		<b>shipping name</b> Not dangerous goods Not dangerous goods Not dangerous goods		
14.3	Transport ADR/RID:	hazard class(es) -	IMDG: -	IATA: -
14.4	Packaging group ADR/RID: -		IMDG: -	IATA: -
14.5	Environmental hazards ADR/RID: no		IMDG Marine pollutant: no	IATA: no
14.6	<b>Special pr</b> end the second sec	ecautions for user ble		

# 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture not applicable
- 15.2 Chemical Safety Assessment not applicable

# 16. OTHER INFORMATION

# List of relevant H statements:

- H302 Harmful if swallowed
- H318 Causes serious eye damage
- H332 Harmful if inhaled