

# **MATERIAL SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006 Version 6.0 Revision Date 06.12.2017

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

1.1 Product identifiers

Product name : Bitrex Sensitivity Solution

Product Number : 050301

Company name : Moldex-Metric AG& Co KG

CAS-No. : 3734-33-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Fit Test Sensitivity Solution

1.3 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-[(2,6-

dimethylphenylcarbamoyl)methyl]benzylammonium benzoate /

Denatonium benzoate

 $\mbox{Formula} \qquad \qquad : \quad \mbox{$\mathsf{C}_{28}$} \mbox{$\mathsf{H}_{34}$} \mbox{$\mathsf{N}_{2}$} \mbox{$\mathsf{O}_{3}$} \\$ 

Molecular Weight : 446,58g/mol

Ingredients CAS-No. EC-No. Concentration Classification

Water --- 94,9865%

Sodium Chloride 7647-14-5 231-598-3 5,0%

Benzoate 3734-33-6 223-095-2 0,0135% 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.

#### **Eve 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
 pH no data available
 Melting point/ freezing point no data available

Initial boiling point and

boiling range no data available Flash point no data available Evaporation rate no data available Flammability not applicable **Explosive limits** not applicable Vapour pressure not applicable Vapour density not applicable 1,034 Relative density

Relative density 1,034Water solubility complete

Partition coefficient:

n-octanol/water no data available
Autoignition temperature not applicable
Decomposition temperature not applicable
Viscosity no data available
Explosive properties not applicable
Oxidizing not applicable

## 9.2 Other safety information

None known

#### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Not applicable

#### 10.2 Chemical stability

Stable

# 10.3 Possibility of hazardous reactions

None known

### 10.4 Conditions to avoid

None known

#### 10.5 Incompatible materials

None known



#### 10.6 Hazardous decomposition products

Other decomposition products - not applicable

#### 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

## **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 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

# 12.2 Persistence and degradability

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. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - 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 Special precautions for user

not applicable

## 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