# Zybax AIR - Fresh Mint

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 - Product identifier

| | |
|---|---|
| Trade name/designation | Zybax AIR - Fresh Mint |
| Chemical name | |
| Product-type | Mixture |
| Product code | ZA-75-M; ZA-05-M |

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

| | |
|---|---|
| Relevant identified uses | - Air freshener |
| Uses advised against | - Use only for intended applications |

### 1.3 - Details of the supplier of the safety data sheet

BioBax Ltd
Technology Park, Standback Way,
Skelmanthorpe, West Yorkshire.
HD8 9GA United Kingdom
Telephone : +44 (0) 1484 868 970

SDS contact: Tel: +44 (0) 1484 868 970 (office hours only) email: safety@biobax.co.uk

### 1.4 - Emergency telephone number

- National Poisons Information Service

For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)

If you are a healthcare professional with an enquiry please visit www.TOXBASE.org United Kingdom
- National Poisons Information Service of England: http://npis.org -
NHS 111: dial 111 United Kingdom

## SECTION 2: Hazards identification

### 2.1 - Classification of the substance or mixture

| | |
|---|---|
| Not Classified | Not classified |

### 2.2 - Label elements

| | | |
|---|---|---|
| Signal word | : | None |
| Pictograms | : | None |
| Hazard statements | : | None |
| Precautionary statements | : | None |
| EUH-phrases | : | None |

### 2.3 - Other hazards

| | |
|---|---|
| PBT-substance. | - The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. |

## SECTION 3: Composition / information on ingredients

### 3.1 - Substances

# Zybax AIR - Fresh Mint

Not applicable

### 3.2 - Mixtures

- Aqueous mixture composed of emulsifiers, solvents and perfume.
- Full text of H- and EUH-statements: see section 16.

| Chemical name | No | % | Class(es) | Specific concentration limit |
|---|---|---|---|---|
| bronopol<br>INCI: 2-BROMO-2-NITROPROPANE-1,3-DIOL | CAS No. : 52-51-7<br>Index No. : 603-085-00-8<br>EC No. : 200-143-0 | < 0.1 | Acute Tox. 3 Inhalation - H331<br>Acute Tox. 3 Oral - H301<br>Acute Tox. 4 Dermal - H312<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 2 - H411<br>Eye Dam. 1 - H318<br>Skin Irrit. 2 - H315<br>STOT SE 3 - H335 | M-factor: 10<br>ATE oral 193<br>ATE dermal 1600<br>ATE Inhalation Dust/Mist 0.588 |

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

Following inhalation
- Provide fresh air.
- When in doubt or if symptoms are observed, get medical advice.

Following skin contact
- After contact with skin, wash immediately with plenty of water and soap.
- In case of skin reactions, consult a physician.

After eye contact
- Rinse immediately carefully and thoroughly with eye-bath or water.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- In case of eye irritation consult an ophthalmologist.

After ingestion
- When in doubt or if symptoms are observed, get medical advice.
- Do NOT induce vomiting.
- Rinse mouth immediately and drink plenty of water.

### 4.2 - Most important symptoms and effects, both acute and delayed

Symptoms and effects - Following inhalation
- No information available.

Symptoms and effects - Following skin contact
- No information available.
- Frequently or prolonged contact with skin may cause dermal irritation.

Symptoms and effects - After eye contact
- No information available.

Symptoms and effects - After ingestion
- No information available.

### 4.3 - Indication of any immediate medical attention and special treatment needed

- No information available.

## SECTION 5: Firefighting measures

### 5.1 - Extinguishing media

Suitable extinguishing media
- ABC-powder

# Zybax AIR - Fresh Mint

| | |
|---|---|
| | - Water mist<br>- Carbon dioxide (CO2)<br>- Extinguishing powder<br>- Full water jet |
| Unsuitable extinguishing media | - none |

### 5.2 - Special hazards arising from the substance or mixture

| | |
|---|---|
| Special hazards arising from the substance or mixture | - No data available. |
| Hazardous decomposition products | - Hazardous combustion products<br>- Carbon dioxide (CO2)<br>- Carbon monoxide |

### 5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.
- Use water spray jet to protect personnel and to cool endangered containers.
- Move undamaged containers from immediate hazard area if it can be done safely.
- Wear a self-contained breathing apparatus and chemical protective clothing.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1 - Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| For non-emergency personnel | - Use personal protection equipment.<br>- Provide adequate ventilation. |
| For emergency responders | - Provide adequate ventilation.<br>- Use personal protection equipment. |

### 6.2 - Environmental precautions

- Large amounts of spillages:
- Avoid discharge into drains or watercourses or onto the ground.

### 6.3 - Methods and material for containment and cleaning up

| | |
|---|---|
| Methods and material for containment | - No information available. |
| Methods and material for cleaning up | - Large amounts of spillages:<br>- Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).<br>- Wash with plenty of water.<br>- Ventilate affected area. |
| Inappropriate techniques | - No information available. |

### 6.4 - Reference to other sections

# Zybax AIR - Fresh Mint

- Disposal: See section 13
- Personal protection equipment: see section 8
- Safe handling: See section 7

## SECTION 7: Handling and storage

### 7.1 - Precautions for safe handling

| | |
|---|---|
| Recommendation | - Avoid contact with skin, eyes and clothes. |
| Advices on general occupational hygiene | - Thorough skin-cleansing after handling the product.<br>- Wash contaminated clothing prior to re-use.<br>- Wash hands before breaks and after work.<br>- When using do not eat, drink, smoke, sniff. |

### 7.2 - Conditions for safe storage, including any incompatibilities

- Keep/store only in original container.
- Keep container tightly closed in a cool, well-ventilated place.
- exposure to cold. Do not freeze
- Avoid high temperatures or direct sunlight.
- Unsuitable container/equipment material:
- metals

### 7.3 - Specific end use(s)

- Observe technical data sheet.
- The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1 - Control parameters

- No data available.

DNEL / PNEC

| bronopol (52-51-7) | | | |
|---|---|---|---|
| **Type** | **Value** | **User** | **Effect** |
| DNEL acute inhalative | 12.3 mg/m³ | Workers | Systemic |
| DNEL acute inhalative | 4.2 mg/m³ | Workers | Local |
| DNEL long-term inhalative | 4.1 mg/m³ | Workers | Systemic |
| DNEL long-term inhalative | 4.2 mg/m³ | Workers | Local |
| DNEL acute dermal, short-term | 0.013 mg/kg | Workers | Local |
| DNEL acute dermal, short-term | 7 mg/kg | Workers | Systemic |
| DNEL long-term dermal | 2.3 mg/kg bw/day | Workers | Systemic |
| DNEL long-term dermal | 0.013 mg/kg bw/day | Workers | Local |
| PNEC aquatic, freshwater | 0.01 mg/l | | |
| PNEC aquatic, marine water | 0.001 mg/l | | |
| PNEC sediment, freshwater | 0.041 mg/kg | | |
| PNEC sediment, marine water | 0.003 mg/kg | | |
| PNEC soil | 0.5 mg/kg | | |
| PNEC sewage treatment plant (STP) | 0.43 mg/l | | |

# Zybax AIR - Fresh Mint

## 8.2 - Exposure controls

| | |
|---|---|
| Appropriate engineering controls | - Provide adequate ventilation. |
| Individual protection measures, such as personal protective equipment | - Spectacles. |
| | - Protective gloves |
| | - For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.<br>- Breakthrough times and swelling properties of the material must be taken into consideration. |
| | - Suitable material: PVC (Polyvinyl chloride) |
| | - NBR (Nitrile rubber)<br>- Suitable protective clothing:<br>- Barrier creams are not substitutes for body protection.<br>- After contact with skin, wash immediately with plenty of water and soap.<br>- Do not eat, drink or smoke when using this product.<br>- Take off contaminated clothing and wash it before reuse.<br>- Wash hands before breaks and after work. |
| Environmental exposure controls | - No data available. |

# SECTION 9: Physical and chemical properties

## 9.1 - Information on basic physical and chemical properties

| | | | |
|---|---|---|---|
| Physical state | Liquid | Appearance | Liquid |
| Colour | colourless | Odour | Mint |

| | |
|---|---|
| Odour threshold | No data available |
| pH | 7 |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | > 100 °C |
| Flash point | not applicable |

# Zybax AIR - Fresh Mint

| | |
|---|---|
| Evaporation rate | < 1<br>n-butyl acetate<br>=1 |
| flammability | No data available |
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | 1 |
| Density | No data available |
| Solubility (Water) | miscible |
| Solubility (Ethanol) | No data available |
| Solubility (Acetone) | No data available |
| Solubility (Organic solvents) | No data available |
| Log KOC | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Kinematic viscosity | No data available |
| Dynamic viscosity | No data available |

### 9.2 - Other information

| | |
|---|---|
| VOC content | 0.46 % |
| Minimum ignition energy | No data available |
| Conductivity | No data available |
| Refractive index | No data available |
| Solids content | No data available |
| Surface tension | No data available |
| Saturation concentration | No data available |

- No data available.
- Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

## SECTION 10: Stability and reactivity

### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

### 10.4 - Conditions to avoid

- prolonged exposure to extreme heat
- Stable under recommended storage and handling conditions.

# Zybax AIR - Fresh Mint

### 10.5 - Incompatible materials

- Strong acid
- Strong alkali

### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.
- Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** - Not classified

**Toxicity : Mixture**

| | |
|---|---|
| LD50 oral (rat) | No data available |
| LD50 dermal (rat) | No data available |
| LD50 dermal (rabbit) | No data available |
| LC50 inhalation (rat) | No data available |
| LC50 inhalation dusts and mists (rat) | No data available |
| LC50 inhalation vapours (rat) | No data available |

- Based on available data, the classification criteria are not met.
- Calculation method.

**Skin corrosion/irritation** - Not classified

- Based on available data, the classification criteria are not met.
- Calculation method.

**Serious eye damage/eye irritation** - Not classified

- Based on available data, the classification criteria are not met.
- Calculation method.

**Respiratory or skin sensitisation** - Not classified

- Based on available data, the classification criteria are not met.
- Calculation method.

**Germ cell mutagenicity** - Not classified

- Based on available data, the classification criteria are not met.

**Carcinogenicity** - Not classified

- Based on available data, the classification criteria are not met.

**Reproductive toxicity** - Not classified

- Based on available data, the classification criteria are not met.
- Calculation method.

**STOT-single exposure** - Not classified

# Zybax AIR - Fresh Mint

| | |
|---|---|
| | - Based on available data, the classification criteria are not met.<br>- Calculation method. |
| STOT-repeated exposure | - Not classified |
| | - Based on available data, the classification criteria are not met. |
| Aspiration hazard | - Not classified |

## SECTION 12: Ecological information

### 12.1 - Toxicity

Toxicity : Mixture

| | |
|---|---|
| EC50 48 hr crustacea | No data available |
| LC50 96 hr fish | No data available |
| ErC50 algae | No data available |
| ErC50 other aquatic plants | No data available |
| NOEC chronic fish | No data available |
| NOEC chronic crustacea | No data available |
| NOEC chronic algae | No data available |
| NOEC chronic other aquatic plants | No data available |

Toxicity : Substances

| bronopol (52-51-7) | |
|---|---|
| EC50 48 hr crustacea | 1.4 mg/l |
| LC50 96 hr fish | 11 mg/l |
| NOEC chronic fish | 2.61 mg/l |
| NOEC chronic crustacea | 0.27 mg/l |

- The substance/mixture does not fullfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

### 12.2 - Persistence and degradability

| | |
|---|---|
| Biochemical oxygen demand (BOD) | No data available |
| Chemical oxygen demand (COD) | No data available |
| % of biodegradation in 28 days | No data available |

- No information available.

### 12.3 - Bioaccumulative potential

| | |
|---|---|
| Bioconcentration factor (BCF) | No data available |
| Log KOC | No data available |

- No data available.

### 12.4 - Mobility in soil

- miscible
- Water

### 12.5 - Results of PBT and vPvB assessment

# Zybax AIR - Fresh Mint

- The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 - Other adverse effects

- No data available.

## SECTION 13: Disposal considerations

### 13.1 - Waste treatment methods

| | |
|---|---|
| Waste treatment methods | - Handle contaminated packages in the same way as the substance itself. |
| Sewage disposal | - No information available. |
| Special precautions for waste treatment | - Waste for disposal is to be classified and labelled.<br>- Consult the appropriate local waste disposal expert about waste disposal.<br>- Waste packaging should be collected for reuse or recycling. |
| Community or national or regional provisions | - Dispose of waste according to applicable legislation. |
| Waste codes / waste designations according to Regulation 2014/955/UE | 07 01 04* - other organic solvents, washing liquids and mother liquors |

## SECTION 14: Transport information

### 14.1 - UN number or ID number

Not applicable

### 14.2 - UN proper shipping name

### 14.3 - Transport hazard class(es)

### 14.4 - Packing group

### 14.5 - Environmental hazards

### 14.6 - Special precautions for user

### 14.7 - Maritime transport in bulk according to IMO instruments

## SECTION 15: Regulatory information

### 15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|---|---|
| Substances REACH candidates | None |
| Substances Annex XIV | None |
| Substances Annex XVII | None |
| VOC content | 0.46 % |

- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

### 15.2 - Chemical Safety Assessment

# Zybax AIR - Fresh Mint

| | |
|---|---|
| Chemical safety assessment carried out for the product | - Relevant exposure scenario information for the components of this mixture has been included in this Safety Data Sheet and therefore no annex is provided. |

## SECTION 16: Other information

SDS versions

| Version | Issue date | Author | Description of the amendments |
|---|---|---|---|
| 1.2 | 23/04/2025 | J Waterfield | 3, 8, 9, 12. |
| 1.1 | 23/06/2020 | J Waterfield | |

Abbreviations and acronyms

- ADR: The Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate.
- LC50: Lethal Concentration to 50 % of a test animals.
- LOEC: Lowest Observed Effect Concentration.
- LD50: Lethal Dose to 50% of a test animals.
- LOEL: Lowest Observed Adverse Effect Level.
- DNEL: Derived no-effect level.
- EC50: Effective concentration of the substance that causes adverse effects in 50% of test animals.
- IATA: International Air Transport Association.
- IMDG: International Maritime Dangerous Goods.
- EC No: European Community number
- NOEC: No Observed Effect Concentration.
- NOEL: No observable effect level.
- CAS No.: Chemical Abstracts Service number.
- ICAO: International Civil Aviation Organization
- PBT: Persistent, Bioaccumulative and Toxic.
- PNEC: Predicted no-effect concentration.
- RID: International Carriage of Dangerous Goods by Rail.
- STEL: Short-term exposure limit
- TWA: Time weighted average
- OEL: Occupational exposure limit.
- vPvB: very Persistent and very Bioaccumulative.

Data sources: Material Safety Data Sheet, Misc. manufacturers.

Texts of the regulatory sentences

| | |
|---|---|
| Acute Tox. 3 Inhalation | Acute toxicity (inhalative) - Category 3 |
| Acute Tox. 3 Oral | Acute toxicity (oral) - Category 3 |
| Acute Tox. 4 Dermal | Acute toxicity (dermal) - Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Aquatic Acute 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Aquatic Chronic 2 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation - Category 2 |

# Zybax AIR - Fresh Mint

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| Not Classified | Not classified |
| Skin Irrit. 2 | Irritation, Category 2 |
| STOT SE 3 | STOT-single exposure - Category 3 (H335) |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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