



### Material Safety Data Sheet (2001/58/EC)

### 1. Identification of the substance/preparation and of the company

• Date of issue: Jan. 7, 2013

Product name: 2254 Beta Damascenone Synthetic

Recommended use: Flavorings

Manufacturer: Advanced Biotech, Totowa, NJ 07512

• Emergency telephone no.: 1-800-535-5053 (Info Trac)

1-352-323-3500 (International)

### 2. Composition/information on ingredients

• Chemical identity: 2-Buten-1-one, 1-(2,6,6 trimethyl-

1,3cyclohexadien-1-yl)

Molecular formula: C<sub>13</sub>H<sub>18</sub>O
 CAS No.: 23696-85-7
 EC No.: 245-833-2

• EC-Index-No.: N/a

#### 3. Hazards identification

Irritant. May cause sensitization by skin contact

#### 4. First aid measures

After inhalation: Provide with fresh air

After skin contact:
 Take off all contaminated clothing, wash with

plenty of water

After eye contact: Rinse thoroughly with plenty of water and seek

medical advice

After swallowing: Immediately drink plenty of water; Seek

medical advice and show this container or label

#### 5. Fire-fighting measures

#### • Suitable extinguishing media:

Carbon Dioxide (CO<sub>2</sub>), foam, powder

### • Special protective equipment for fire fighting:

Do not stay in danger zone without self-contained breathing apparatus.

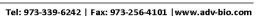
#### Other information:

Cool container with water spray from a safe distance. Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater. Keep away from sources of ignition.

#### Special risks:

May form explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapors possible in the event of fire.

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#### 6. Accidental release measures

#### Person-related precautionary measures:

Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.

### Environmental-protection measures:

Do not allow to enter sewage system.

### Procedures for cleaning / absorption:

Take up with liquid-absorbent material. Forward for disposal. Clean affected area.

# 7. Handling and storage

## • Handling:

Take precautionary measures against static discharges. Keep away from source of ignition. When using do not eat or drink.

#### Storage:

Tightly closed, in a well-ventilated place. Keep away from source of ignition - no smoking.

# 8. Exposure controls and personal protection

### Exposure limits

Avoid contact with eyes, skin, clothing, and breathing vapor.

#### Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: Required when vapors/aerosols are generated.

Eye protection: Wear eye/ face protectionHand protection: Wear suitable gloves

Industrial hygiene: Change contaminated clothing. Application of

skin-protective barrier cream recommended. Wash hands after working with substance.

#### 9. Physical and chemical properties:

• Form: Liquid

Color: Colorless to pale yellow

Odor: Fruity, Berry

pH value at 10 g/l H<sub>2</sub>O
 No information available

Boiling point: N/a
Flash point: >93.3°C
Melting point: N/a

Explosive properties:
Lower explosion limit:
Upper explosion limit:
Ignition temperature:

No information available
No information available
No information available

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Oxidizing properties:
 Not oxidizing; Not Flammable

Vapor pressure: 10 mm @ 20°C
Density/specific gravity@20°C: 0.940 – 0.960

• Solubility in Water: Insoluble

Organic solvents: Soluble

10. Stability and reactivity

Conditions to be avoided: Heating

Substances to be avoided: Strong oxidizing agents

Hazardous decomposition
 Carbon monoxide, carbon dioxide

products:

Further information:
 No information available

11. Toxicological information

LD<sub>50</sub> oral, rat: > 2000 mg/kg
 LD<sub>50</sub> dermal, rabbit: > 4 ml/kg

• LD<sub>50</sub> inhalation, rat: No information available

• Further toxicological information: May be harmful if inhaled, swallowed, or if

absorbed through the skin.

# 12. Ecological information

Biologic degradation

Biodegradation: No information available

Ecotoxic effects

Biological effects: No information available
Fish toxicity: No information available
Bacterial toxicity: No information available
Daphnia toxicity: No information available
Algeal toxicity: No information available

• Behavior in environmental compartments

Distribution: log P(oct): No information available

• Further ecological data

Do not allow to enter water, drain or soil.

### 13. Disposal considerations

Product:

according to official local regulations.

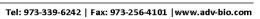
Packing:

according to official local regulations.

# 14. Transport information

Not subject to transport regulations.

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# 15. Regulatory information

• Labeling according to EC Directives:

Symbol: Xi Irritant

R-phrases: 43 May cause sensitization by skin

contact

S-phrases: N/a N/a

EC-no.: 245-833-2

#### 16. Other information

• The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Issued by: Advanced Biotech

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