

| | |
|--------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

| | |
|----------------|---------------------|
| Product Name | Isoeugenol, Natural |
| Product Number | 0246800 |
| CAS-No. | 97-54-1 |

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

| | |
|---------|--|
| Company | Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA |
|---------|--|

| | |
|-----------|--------------|
| Telephone | 845-496-6065 |
| Fax | 845-496-6248 |

1.4 Emergency Telephone Number

1-800-535-5053
International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of 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 Skin sensitization (Category 1), H317 Specific Target Organ Toxicity -Single Exposure -Respiratory irritation, H335 |
|--|---|

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

| | |
|------|-------------------------------------|
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

Precautionary Statement(s)

PREVENTION
P261 Avoid breathing dust/fume/gas/mist/vapors/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
 P272 Contaminated work clothing should not be allowed out of workplace
 P280 Wear protective gloves/protective clothing/face protection

RESPONSE

P301+312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell
 P302+352 IF ON SKIN: Wash with plenty of soap and water
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+351+338 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 physician if you feel unwell
 P333+313 IF skin irritation or rash occurs: Get medical advice/attention
 P337+313 If eye irritation persists: Get medical advice/attention
 P362 Take off contaminated clothing and wash before reuse

STORAGE

P403+233 Store in a well ventilated area. Keep container tightly closed
 P405 Store locked up

DISPOSAL

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

2.3 HNOC (Hazards not otherwise classified or not covered by GHS)

None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonym 2-Methoxy-4-propenylphenol
 4-Propenylguaicol

Formula C₁₀H₁₂O₃
 Molecular Weight 164.2 g/mol
 CAS-No 97-54-1
 EC-No 202-590-4

Hazardous Components

| Component | Classification | Concentration |
|------------|---|---------------|
| Isoeugenol | Acute Toxicity, Oral (4), H302 Skin irritation (2), H315 Eye irritation (2A), H319 Skin sensitization (1), H317 Specific Target Organ Toxicity -Single Exposure (3) -Respiratory irritation, H335 | - |

Section 4: FIRST AID MEASURES

4.1 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. |
| Inhalation | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Consult a physician. |
| Contact with skin: | Remove contaminated clothing. Rinse skin with cool water for several minutes, then wash with mild soap and warm water. Consult a physician. |
| Contact with eyes: | Remove contact lenses if present and easy to do. Flush opened eyes with water for at least 15 minutes as a precaution. If symptoms persist, consult a doctor |
| Ingestion: | DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist consult doctor |
| Clothing contamination: | Remove contaminated clothing and wash before reuse. |

4.2 Most important symptoms and effects both acute and delayed

The most important know symptoms and effects are described in sections 2.2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed.

No data available

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media Use water spray, alcohol resistant foam, dry chemical or carbon dioxide, Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for fire fighters

Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes under fire conditions. Do not breathe fumes. Cool endangered receptacles with water spray. Do not let fire fighting water enter sewage system

5.4 Further information

No data available

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas, ventilate closed spaces before entering them. Avoid breathing dust.

6.2 Environment precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge to the environment must be avoided

6.3 Methods and materials for containment and clean up

Collect spillage without creating dust, wet sweep, and pick up with shovel. Keep in suitable closed container for hazardous waste disposal.

6.4 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Section 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid formation of dust. Avoid breathing vapor/dust. Avoid contact with eyes, skin, clothing. Provide adequate exhaust ventilation at place where dust is formed. Normal measures for preventative fire protection.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry and well-ventilated place. Handle container with care.
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure Controls

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday. Explosion proof ventilation equipment to stay below exposure limits.

Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.

Eye/face protection Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection Wear chemically resistant gloves. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Body protection Body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific work place.

Respiratory protection Respiratory protection not usually required. For nuisance exposures use P95 (US) or P1 (EU EN 143) dust masks. For higher level of 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 Prevent further spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|------------------|-----------------------------|
| a Appearance | Pale yellow, viscous liquid |
| b Odor | Floral - Carnation |
| c Odor Threshold | No data available |

Safety Data Sheet

| | | |
|-----|--|---|
| d | pH | No data available |
| e | Melting Point /Freezing Point | Melting point: 27.3°C |
| f | Boiling Point | 266°C |
| g | Flash Point | ca. >110°C closed cup |
| h | Evaporation Rate | No data available |
| i | Flammability (Solid, Gas) | No data available |
| j | Upper/lower Flammability Limit | No data available |
| k | Vapor pressure | No data available |
| l | Vapor density | 5.67 (Air=1.0) |
| m | Relative density @25°C | 1.079-1.085 |
| n | Solubility | Soluble in most fixed oils and ether; 1:5 in 50% alcohol; insoluble in glycerin |
| o | Partition coefficient: n-octanol/water | log Pow: 2.1 |
| p | Auto-ignition Temp. | No data available |
| q | Decomposition Temp. | No data available |
| r | Viscosity | No data available |
| s | Explosive properties | No data available |
| t | Oxidizing properties | No data available |
| 9.2 | Other Safety Information | No data available |

Section 10: STABILITY AND REACTIVITY

| | | |
|------|---|---|
| 10.1 | Reactivity | No data available |
| 10.2 | Chemical Stability | Stable under recommended storage conditions |
| 10.3 | Possibility of Hazardous reactions | No data available |
| 10.4 | Conditions to avoid | No data available |
| 10.5 | Incompatible materials | Strong oxidizing agents |
| 10.6 | Hazardous decomposition products | No data available |
| 10.7 | Further Information | No data available |

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50-Oral -Rat

1,560 mg.kg
Remarks: Behavioral: Coma

Skin corrosion/irritation

Rabbit: Severe skin irritation 24hr (Draize Test)

Serious eye damage/eye irritation

Irritating effect

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

Human - Lymphocyte - Sister chromatid exchange

Carcinogenicity

IARC No component of this product, present 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 (GHS)

Inhalation - May cause respiratory irritation

Specific target organ toxicity-repeated exposures (GHS)

No data available

Aspiration Hazards

No data available

Signs and Symptoms of Exposure

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

Synergistic effects

No data available

RTECS:

SL7875000

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product:

According to local regulations

Packaging

According to local regulations

Section 14: TRANSPORT INFORMATION

DOT (US)

Not a dangerous goods

IMDG

Not a dangerous goods

IATA

Not a dangerous goods

Section 15: REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III,

Safety Data Sheet

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

Isoeugenol

CAS #: 97-54-1

Revision Date:

New Jersey Right to Know components

Isoeugenol

CAS #: 97-54-1

Revision Date:

California Prop. 65 components

This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 3
Chronic Health Hazard
Flammability 1
Physical Hazard 0

Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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