

| | |
|--------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| REACTIVITY | 0 |

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

| | |
|----------------|----------------------------|
| Product Name | Isopropyl Acetate, Natural |
| Product Number | 0292600 |
| CAS-No. | 108-21-4 |

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) | Flammable Liquids (Category 2), H225 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity-single exposure (Category 3) Central Nervous System, H336 |
|--|--|

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement
Hazard Statement(s)

| | |
|---------------|-----------------------------------|
| DANGER | |
| H225 | Highly flammable liquid and vapor |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |

Precautionary Statement(s)

| | |
|------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking |
| P233 | Keep container tightly closed |
| P240 | Ground/bond container and receiving equipment |
| P241 | Use explosion proof electrical/ventilation/lighting equipment |
| P242 | Use only non-sparking tools |
| P243 | Take precautionary measures against static discharge |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray |
| P264 | Wash skin thoroughly after handling |
| P271 | Use only outdoors or in a well-ventilated area |

| | |
|--------------|---|
| P280 | Wear protective gloves/clothing/eye and face protection |
| P303+361+353 | IF ON SKIN (or hair) Remove/take off immediately all contaminated clothing. Rinse skin with water/shower |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P205+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P321 | Call a POISON CENTER or doctor/physician if you feel unwell |
| P332+P313 | If skin irritation occurs: Get medical attention |
| P337+P313 | IF eye irritation persists: Get medical attention |
| P362 | Take off Contaminated clothing and wash before reuse |
| P370+P378 | In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction |
| P403+P233 | Store in a well ventilated place. Keep container tightly closed |
| P403+P235 | Store in a well ventilated place. Keep cool |
| P405 | Store locked up |
| 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

| | |
|------------------|---|
| Formula | C ₅ H ₁₀ O ₂ |
| Molecular Weight | 102.13 g/mol |
| CAS-No | 108-21-4 |
| EC-No. | 203-561-1 |
| Index-No. | 607-024-00-6 |

Hazardous Components

| Component | Classification | Concentration |
|-------------------|---|---------------|
| Isopropyl acetate | Flammable Liquid (2) H225 Skin irritation (2) H315 Eye irritation (2A), H319 STOT SE (3), H336 | <=100% |

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 | Provide fresh air; keep at rest and at a comfortable position to breathe |
| Contact with skin: | Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. |
| Contact with eyes: | Flush eyes with plenty of water. Consult a physician. |
| Ingestion | DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. |

Clothing contamination: Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects both acute and delayed See section 2.2 and or section 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
- 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.
- 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. Insure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive conditions.
- 6.2 **Environment precautions** Do not allow to enter drains or sewage system.
- 6.3 **Methods and materials for containment and clean up** Keep in suitable, closed containers for 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 contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 **Conditions for Safe storage** Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.
- 7.3 **Specific End use(s)** Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
Components with workplace control parameters

| Component | CAS-No. | Value | Control Parameters | Basis |
|-------------------|----------|-------|----------------------------------|---|
| Isopropyl Acetate | 108-21-4 | TWA | 250 ppm 950 mg/m ³ | USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants |

Remarks: *The value in ,g/m³ is approximate*
TWA 100 ppm USA. ACGIH Threshold Limit Values (TLV)

Remarks: *Central Nervous System impairment; Upper Respiratory tract irritation, eye irritation*
TWA 100 ppm USA. ACGIH Threshold Limit

Remarks: *Central Nervous System impairment; Upper Respiratory tract irritation, eye irritation*
STEL 200 ppm USA. ACGIH Threshold Limit Values (TLV)

Remarks: *Central Nervous System impairment; Upper Respiratory tract irritation, eye irritation*
STEL 200 ppm USA. ACGIH Threshold Limit Values (TLV)

Remarks: *Central Nervous System impairment; Upper Respiratory tract irritation, eye irritation*
See Appendix D: Substances with no established RELs

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.

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 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 Complete suit protecting against chemicals should be selected specifically for the work 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 Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Control of environmental exposure Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | | |
|---|-------------------------------|--------------------------------|
| a | Appearance | Colorless, clear mobile liquid |
| b | Odor | Intense, fruity |
| c | Odor Threshold | No data available |
| d | pH | No data available |
| e | Melting Point /Freezing Point | -73°C |

| | | |
|-----|--|--|
| f | Boiling Point | 85-91°C |
| g | Flash Point | 16.7°C closed cup |
| h | Evaporation Rate | No data available |
| i | Flammability (Solid, Gas) | No data available |
| j | Upper/lower Flammability Limit | Upper explosion limit: 8% (V), Lower explosion limit: 1.8% (V) |
| k | Vapor pressure | 63 hPa (47 mmHg) at 20°C |
| l | Vapor density | 3.53- (Air=1.0) |
| m | Relative density @25°C | 0.866-0.869 |
| n | Solubility | Miscible with alcohol, ether and fixed oils, 1g in 72ml water |
| o | Partition coefficient: n-octanol/water | No data available |
| 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 | Vapors may form explosive mixture with air |
| 10.4 | Conditions to avoid | Heat, moisture – flames, sparks Extremes of temperature and direct sunlight |
| 10.5 | Incompatible materials | Acids, Bases, 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 6,7500 mg/kg
LC50-Inhalation-Rat 50,600 mg/m³ 8hr

Skin corrosion/irritation No data available
Serious eye damage/eye irritation No data available
Respiratory or skin sensitization No data available
Germ Cell mutagenicity No data available

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
Teratogenicity No data available
Specific target organ toxicity-single exposure (GHS) May cause drowsiness or dizziness
Specific target organ toxicity-repeated exposures (GHS) No data available
Aspiration Hazards No data available

Signs and Symptoms of Exposure Prolonged or repeated exposure can cause: Nausea, Headache, Vomiting, Narcosis

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

Synergistic effects No data available

RTECS: AI4930000

Section 12: ECOLOGICAL INFORMATION

| | | |
|------|------------------------------------|---|
| 12.1 | Toxicity | TO FISH: LC0 – Leuciscus idus melanotus – 260 mg/l – 48 hr LC50- Leuciscus idus melanotus – 265 mg/l – 48 hr |
| 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) | | UN 1220 Class 3 Packing Group II |
| Proper Shipping Name | | Isopropyl Acetate |
| Poison Inhalation Hazard | | No |
| IMDG | | UN 1220 Class 3 Packing Group II |
| Proper Shipping Name | | ISOPROPYL ACETATE EMS-No. F-F, S-D |
| IATA | | UN 1220 Class 3 Packing Group II |
| Proper Shipping Name | | Isopropyl Acetate |

Section 15: REGULATORY INFORMATION

| | | | |
|--|---|---------------|--------------------|
| SARA 302 Components | No chemicals in this material are subject to the reporting requirements of SARA Title III, 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 | No SARA Hazards | | |
| Massachusetts Right to Know components | Isopropyl Acetate | CAS# 108-21-4 | Rev. Date: 4/24/93 |
| Pennsylvania Right to Know components | Isopropyl Acetate | CAS# 108-21-4 | Rev. Date: 4/24/93 |
| New Jersey Right to Know components | Isopropyl Acetate | CAS# 108-21-4 | Rev. Date: 4/24/93 |
| 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 2
 Chronic Health Hazard
 Flammability 3
 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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