

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

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

| | |
|----------------|--|
| Product Name | 2-Methyl Butyl Isobutyrate, Natural |
| Product Number | N/A |
| CAS-No. | 2445-69-4 |

| | |
|-----------|---|
| REACH No. | A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. |
|-----------|---|

1.2 Product Recommended Use

Flavorings

1.3 Preparation Information

| | |
|-----------|---|
| Company | Aurochemicals 7 Nicoll Street Washingtonville, NY 10992 |
| 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 liquid and vapor (Category 3), H226 Skin irritation (Category 2) H315 Eye irritation (Category 2A) H319 |
|--|---|

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

| | |
|------|-------------------------------|
| H226 | Flammable liquid and vapor |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |

Precautionary Statement(s)

| | |
|------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking |
| P241 | Use explosion-proof electrical/ventilating/light/.../equipment |
| P264 | Wash skin thoroughly after handling |
| P280 | Wear protective gloves, protective clothing, eye protection, face protection |

| | |
|----------------|--|
| P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see supplemental first aid instructions on this label) |
| P332+P313 | If skin irritation occurs: Get medical advice/attention |
| P337+P313 | If eye irritation persists: Get medical advice/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+P235 | Store in a well ventilated place. Keep cool |
| 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

| | |
|---------------------------|--|
| Chemical characterization | Natural Product |
| Synonyms | Isoamyl 2-methylbutyrate |
| Formula | C ₁₀ H ₂₀ O ₂ |
| Molecular Weight | 172.26 g/mol |
| CAS-No | 2445-69-4 |
| EC-No. | 219-493-0 |

Hazardous Components

| Component | Classification | Concentration |
|--------------------------------|---|---------------|
| 3-Methylbutyl 2-methylbutyrate | Flammable Liquid (3) H226 Skin irritant (2) H315 Eye irritant (2A) H319 | - |

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. Consult a physician |
| Contact with skin: | Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water. Consult a physician |
| Contact with eyes: | Rinse thoroughly with plenty of water for at least 15 minutes as a precaution. Consult a physician, |
| Ingestion | DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
| Clothing contamination: | Remove contaminated clothing and wash before reuse. |

4.2 Most important symptoms and effects See section 2.2 and or section 11

both acute and delayed

- 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 For small (incipient) fires, use media such as alcohol foam, dry chemical or carbon dioxide. For large fires, apply water from as far away as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water,
- 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** Use water spray to cool unopened containers.

Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided.
- 6.3 **Methods and materials for containment and clean up** Contain spillage, Pick up and arrange disposal without creating dust. Sweep up with broom and shovel. Place in a suitable, closed container 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. 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 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

Contains no substance with workplace control parameters

8.2 Exposure Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practices.

Personal protective equipment

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

| | |
|-----------------------------------|---|
| Eye/face protection | Wear appropriate tightly fitting safety goggles. NIOSH tested and approved. |
| Skin protection | Wear chemically resistant gloves of Nitrile rubber, 04 mm. 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, made of flame retardant antistatic material 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 (U) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) or CEN (EU). |
| Control of environmental exposure | Prevent further leakage or 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 | Liquid, Colorless |
| b Odor | Herbaceous, fruity, somewhat earthy fragrance and flavor |
| c Odor Threshold | No data available |
| d pH | No data available |
| e Melting Point /Freezing Point | No data available |
| f Boiling Point | 168-170°C |
| g Flash Point | 50°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 | No data available |
| m Relative density @25°C | 0.850-0.862 |
| n Solubility | Soluble in water, soluble in alcohol and oil |
| o Partition coefficient: n-octanol/water | No data available |
| p Auto-ignition Temp. | No data available |
| q Decomposition Temp. | No data available |

Safety Data Sheet

| | | |
|---|----------------------|-------------------|
| 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 | Heat, Flames and Sparks |
| 10.5 Incompatible materials | Strong Oxidizing agents, Strong Acids, Strong bases |
| 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 | No data available |
| LC50-Inhalation | No data available |
| LD50-Dermal | No data available |
| 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) No data available

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: | No data available |

Section 12: ECOLOGICAL INFORMATION

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|---|--|
| 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

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|-----------------------|--------------------------------|
| 13.1 Disposal methods | |
| Product: | According to local regulations |
| Packaging | According to local regulations |

Section 14: TRANSPORT INFORMATION

| | |
|--------------------------|---|
| DOT (US) | NA-Number 1993 Class: None Packing Group III |
| Proper Shipping Name | Combustible liquid, n.o.s. (3-Methylbutyl 2-methylbutyrate) |
| Reportable Quantity (RQ) | No |
| Marine pollutant | No |
| Poison Inhalation Hazard | No |
| IMDG | Not dangerous good |
| IATA | Not dangerous good |

Section 15: REGULATORY INFORMATION

| | |
|-----------------------------|--|
| Reach No. | A registration number is not available for this substance as its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. |
| 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 | Fire Hazard |
| Massachusetts Right to Know | No components are subject to the Massachusetts Right to Know Act |

Safety Data Sheet

components

Pennsylvania Right to Know components 3-Methylbutyl 2-methylbutyrate CAS# 27625-35-0 Rev. Date:

New Jersey Right to Know components 3-Methylbutyl 2-methylbutyrate CAS# 27625-35-0 Rev. Date:

California Prop. 65 components This product does not contain any chemicals known to 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 2
Reactive 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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