

HEALTH 1
FLAMMABILITY 4
REACTIVITY 0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

1	.1	Pro	duct	ide	ntifiers
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Product Name Isovaleraldehyde, Natural

Product Number 0269200
CAS-No. 590-86-3
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

 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 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 2),H411

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement Hazard Statement(s)

H225 Highly flammable liquid and vapor H319 Causes serious eve irritation

H411 Toxic to aquatic life with long lasting effects

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. Ventilating/lighting/equipment

P242 Use only non sparking tools

P243 Take precautionary measures against static discharge

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P364 Wash skin thoroughly after handling

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin

with water/shower

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation occurs: Get medical advice/attention

P370+P378 In case of fire: use dry sand, dry chemical or alcohol resistant foam for extinction.

P403+P25 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 3-Methylbutyraldehyde

**Hazardous Components** 

Component Classification Concentration

Isobutyl Isovalerate Flammable Liquids (2) H225 Eye irritant (2A), H319

Acute Aquatic Toxicity (2) 401 Chronic Aquatic Toxicity (2)411

## 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 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

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** Carbon oxides

substance or mixture

2692 Isovaleraldehyde Nat sds.doc Printed: August 15, 2022 Page 2 of 7



5.3 Advice for fire fighters Wear self contained breathing apparatus for firefighting if necessary. Emits toxic fumes

under fire conditions

**Further information** Use water spray to cool unopened containers.

#### Section 6: **ACCIDENTIAL RELEASE MEASURES**

Personal precautions, protective 6.1 equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Evacuate

personnel to safe areas.

6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or

sewage system.

6.3 Methods and materials for containment

and clean up

6.4

Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable,

closed container for disposal.

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated. Specific end use(s)

#### 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. Use explosion proof equipment. Take measures to

prevent the buildup of electrostatic charge.

Keep container tightly closed in a dry and well-ventilated place. Containers which are 7.2 **Conditions for Safe storage** 

opened must be carefully resealed and kept upright to prevent leakage. Handle and

Store under inert gas Air and light sensitive

7.3 Specific End use(s) Flavorings

#### Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 **Control parameters**

Components with workplace control parameters: Contains no substances with workplace control parameters.

#### 8.2 **Exposure Controls**

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and safety practices.

Mechanical exhaust required, Safety Shower and Eye Bath

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, Butyl rubber 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.

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Body protection Impervious clothing 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.

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# Safety Data Sheet



Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full face

respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

CN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Colorless to pale yellow liquid **Appearance** 

Powerful, penetrating, slightly fruity at low levels b Odor

С Odor Threshold No data available d рН No data available

Melting Point /Freezing Point Melting Point: -51°C е

**Boiling Point** 93°C

Flash Point -1.7°C closed cup **Evaporation Rate** No data available h Flammability (Solid, Gas) No data available Upper/lower Flammability Limit **UEL: 6.8 Vol%** LEL: 1.7 Vol%

Vapor pressure 40 hPa at 20°C Vapor density 2.97 (Air = 1.0)Relative density at 25°C 0.795-0.802

Soluble in most organic solvents n Solubility

Partition coefficient: n-octanol/water No data available 0 No data available Auto-ignition Temp. q Decomposition Temp, No data available Viscosity No data available r Explosive properties No data available Oxidizing properties No data available

Other Safety Information No data available

#### STABILITY AND REACTIVITY Section 10:

10.1 Reactivity No data available

10.2 Chemical Stability Stable under recommended storage conditions

10.3 Possibility of Hazardous reactions No data available

Conditions to avoid Heat, Flames and sparks. Extremes of temperature and direct sunlight 10.4

Incompatible materials Oxidizing agents, Strong bases, Strong reducing agents 10.5

Hazardous decomposition products No data available 10.6 **Further Information** No data available 10.7

#### TOXICOLOGICAL INFORMATION Section 11:

#### 11.1 Information on toxicological effects

**Acute Toxicity** 

LD50-Oral-Rat 5.600 ma/ka

Remarks: Behavioral: Somnolence (general depressed activity)

42.700 mg/m3 4h LC50-Inhalation-Rat

Remarks: Behavioral: Altered sleep time (including change in righting reflex).

Page 4 of 7



Gastrointestinal: Changes in structure or function of salivary glands.

LD50-Dermal-Rabbit 2,534 mg/kg

Remarks: Liver: other changes, prolonged skin contact may cause skin irritation and/or

dermatitis.

Skin corrosion/irritation

Germ Cell mutagenicity

Rabbit – Mild skin irritation – 24 h Rabbit- Moderate eye irritation – 24 h

Serious eye damage/eye irritation Respiratory or skin sensitization

No data available 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
Teratogenicity

Specific target organ toxicity-single

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS)

**Aspiration Hazards** 

No data available

Signs and Symptoms of Exposure Headache, Nausea

To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated

Synergistic effect No data available RTECS: ES3450000

## Section 12: ECOLOGICAL INFORMATION

**12.1 Toxicity** To Fish

LC50 - Pimephales promelas (fathead minnow) - 3.25 mg/l 96 h

12.2Persistence and degradabilityNo data available12.3Bioaccumulative potentialDoes not bioaccumulate12.4Mobility in soilNo 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

An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal. Toxic to aquatic life

### Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product: According to local regulations
Packaging According to local regulations

2692 Isovaleraldehyde Nat sds.doc Printed: August 15, 2022 Page 5 of 7



### Section 14: TRANSPORT INFORMATION

DOT (US) UN-Number: 1989 Class: 3 Packing Group: II

Proper shipping name: Aldehydes n.o.s.

Marine Pollutant: No Poison Inhalation Hazard: No

IMDG UN-Number: 1989 Class: 3 Packing Group: II EMS-No. F-E, S-D

Proper shipping name: ALDEHYDES N.O.S. (Isovaleraldehyde)

Marine Pollutant: No

IATA UN-Number: 1989 Class: 3 Packing Group: II

Proper shipping name: Aldehydes n.o.s. (Isovaleraldehyde)

## 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 nod 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 Acute health hazard

Massachusetts Right to Know Isovaleraldehyde CAS# 590-86-3 Rev. Date: 4/24/1993

components

Pennsylvania Right to Know components Isovaleraldehyde CAS# 590-86-3 Rev. Date: 4/24/1993

New Jersey Right to Know components Isovaleraldehyde CAS# 590-86-3 Rev. Date: 4/24/1993

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 4 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

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# **Safety Data Sheet**



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