

# SAFETY DATA SHEET

## SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

<u>Product Name:</u> Isovaleraldehyde 97%

Product Code: I11260

Supplier: Pfaltz & Bauer, Inc.

172 E. Aurora Street

Waterbury, CT 06708 USA

Phone: 203-574-0075

FAX: 203-574-3181

Emergency Phone: INFOTRAC, US: 1-800-535-5053

INFOTRAC, INTERNATIONAL: +1-352-323-3500

### **SECTION 2: HAZARDS IDENTIFICATION**

<u>Statement of Hazard:</u> Environmentally hazardous, Flammable liquid, In use may form

flammable/explosive vapour-air mixture, Irritant, Respiratory irritant

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system.

May be harmful by ingestion, skin absorption and inhalation.

Chronic Health Hazard: Not Available

HMIS Rating: H: 2 F: 3 P: 0

NFPA Rating: H: 2 F: 3 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): GHS Classification in accordance with Regulation (EC) No 1272/2008:

Acute toxicity, dermal (Category 4), H312

Acute toxicity, inhalation (Category 4), H332

Acute toxicity, oral (Category 4), H302 Flammable liquids (Category 2), H225

Hazardous to the aquatic environment, acute toxicity (Category 2), H401

Serious eye damage/eye irritation (Category 2A), H319

Skin corrosion/irritation (Category 2), H315

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

#### Pictogram:







Signal Word:

Danger

<u>Hazard Statement(s):</u> H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. — No

smoking.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/[

1/equipment.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P273 Avoid release to the environment.

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

protection.

P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician

IF you feel unwell.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in

a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

Supplemental Statement(s): EUH018 In use may form flammable/explosive vapour-air mixture

## **SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS**

Chemical Name: Isovaleraldehyde 97%

<u>Synonyms:</u> 3-Methylbutanal; 3-Methylbutyraldehyde

<u>CAS Number:</u> 590-86-3

MDL Number: MFCD00007014

EINECS Number: 209-691-5

Beilstein Registry Number: 773692

Molecular Formula: C5H10O

Molecular Weight: 86.13

Content: As specified in product name.

### **SECTION 4: FIRST AID MEASURES**

<u>Eye Contact:</u> Flush eyes with large amounts of water for fifteen minutes. Separate

eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical

attention.

<u>Ingestion:</u> Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing

becomes difficult.

## **SECTION 5: FIRE FIGHTING MEASURES**

Flash Point (°C): -5

Explosion Limits: Not Available

<u>Auto Ignition</u> 240

Temperature (°C):

Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water

spray

Protective Equipment: Wear self-contained respirator and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under fire conditions. In use may form

flammable/explosive mixure.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

<u>Personal Protection:</u> Wear a self-contained breathing apparatus, rubber boots and gloves,

and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and

contact proper authorities if needed. Keep unprotected persons away. **Environmental Protection:** 

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

### **SECTION 7: HANDLING and STORAGE**

<u>Handling and Storage:</u> Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and

eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources

away.

Store in a tightly closed container in a dry, well-ventilated place. Store

under inert gas. Store under nitrogen.

Sensitivities: Air, Light

Storage Temperature (°C): 15 to 30

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

<u>Engineering Controls:</u> Use product in a well ventilated area or under a fume hood. Use proper

lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

**Eve Protection:** Wear appropriate protective eyeglass or chemical safety goggles. Make

sure that there is an eyewash station in your vicinity.

<u>Skin Protection:</u> Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or

if irritation or other symptoms are experienced.

<u>Exposure Limits:</u> <u>Country</u> <u>Source</u> <u>Type</u> <u>Value</u>

USA ACGIH TWA Not Available
USA OSHA STEL Not Available
USA OSHA PEL Not Available

# **SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

<u>Appearance:</u> Clear colorless liquid

Odor: Unpleasant

Odor Threshold: Not Available

Flash Point (°C): -5

<u>Auto Ignition</u>

Temperature (°C):

240

UEL % by Volume:

Not Available

LEL % by Volume:

Not Available

Melting Point (°C):

-51

Boiling Point (°C):

90-93

**Evaporation Rate:** 

Not Available

pH Value:

Not Available

Density (q/cm<sup>3</sup>):

0.803

Refractive Index (n<sup>20</sup>D):

1.3882

Viscosity:

Not Available

Solubility in Water:

Not Available

Solubility in Other:

Soluble in Ether.

Vapor Pressure (mmHg):

30

Vapor Density (Air=1):

2.96

## **SECTION 10: STABILITY and REACTIVITY**

Stability:

Stable under normal temperatures and pressures.

Incompatibility:

Oxidizing agents, Strong bases, Strong reducing agents

Reactivity:

Product may react with incompatible materials to release other

hazardous substances.

Conditions to Avoid:

Heat, flame, sparks, other ignition sources.

<u>Hazardous</u>

Carbon oxides

Decomposition Products:

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**RTECS Reference:** 

ES3450000

Target Organs: Not Available

Toxicity Data: Oral Rat LD<sub>50</sub> mg/kg: 5600.00

Dermal Rabbit LD<sub>50</sub> mg/kg: 2534.00

Inhalation Rat LC<sub>50</sub>, mg/m3 - h: 42700.00 - 4

<u>Carcinogenicity:</u> National Toxicology Program (NTP) listed:

Not Available

International Agency for Research on Cancer (IARC) listed: Not

Available

<u>Potential Symptoms:</u> Not Available

## **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity: Flathead minnow LC<sub>50</sub>: 3.25 mg/l - 3.25 hrs.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

## **SECTION 14: TRANSPORT INFORMATION**

<u>DOT Shipping Name:</u> Aldehydes, N.O.S.

DOT UN Number: UN2058

<u>DOT Hazard Class:</u> Class 3

DOT Packing Group: PGII

IMDG Shipping Name: Aldehydes, N.O.S.

IMDG UN Number: UN2058

IMDG Hazard Class: Class 3

IMDG Packing Group: PGII

Marine Pollutant: No

<u>IATA Shipping Name:</u> Aldehydes, N.O.S.

IATA UN Number: UN2058

IATA Hazard Class: Class 3

IATA Packing Group: PGII

### **SECTION 15: REGULATORY INFORMATION**

#### **United States**

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

#### European Union

European Inventory of Existing Chemical Substances (EINECS): 209-691-5

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

#### Canada

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

## **SECTION 16: OTHER INFORMATION**

Date Prepared: 6/21/2023

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.