

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

<u>Product Name:</u> Butyraldehyde 98%

Product Code: B31340

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

Statement of Hazard: 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 3), H402

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

<u>Pictogram:</u>





<u>Signal Word:</u> 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.

H402 Harmful to aquatic life.

<u>Precautionary Statement(s):</u> 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: Butyraldehyde 98%

<u>CAS Number:</u> 123-72-8

MDL Number: MFCD00007023

EINECS Number: 204-646-6

Beilstein Registry Number: 506061

Molecular Formula: C4H8O

Molecular Weight: 72.11

Content: As specified in product name.

SECTION 4: FIRST AID MEASURES

Eye Contact: 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

<u>Explosion Limits:</u> Lower, % by volume: 1.8

Upper, % by volume: 8.

Auto Ignition

Temperature (°C):

Not Available

<u>Extinguishing Media:</u> Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water

spray

<u>Protective Equipment:</u> Wear self-contained respirator and fully protective impervious suit.

<u>Specific Hazards:</u> 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

Storage Temperature (°C): 2 to 8

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: 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.

Eye 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: Stench

Odor Threshold: Not Available

Flash Point (°C): -5

Auto Ignition

Temperature (°C):

Not Available

UEL % by Volume:

8.

LEL % by Volume:

1.8

Melting Point (°C):

-96

Boiling Point (°C):

75-76

Evaporation Rate:

Not Available

pH Value:

6.0-7.0

Density (q/cm³):

0.817

Refractive Index (n²⁰D):

1.380

Viscosity:

Not Available

Solubility in Water:

Soluble

Solubility in Other:

Soluble in Ether, Alcohols, Benzene, Acetone, and Toluene.

Vapor Pressure (mmHq):

90

Vapor Density (Air=1):

2.5

SECTION 10: STABILITY and REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Incompatibility:

Oxidizing agents, Strong bases, Strong reducing agents, Strong acids

Reactivity:

Product may react with incompatible materials to release other

hazardous substances.

Conditions to Avoid:

Heat, flame, sparks, other ignition sources.

Hazardous

Carbon oxides

Decomposition Products:

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference:

ES2275000

<u>Target Organs:</u> Not Available

Toxicity Data: Oral Rat LD₅₀ mg/kg: 2490.00

Dermal Rabbit LD₅₀ mg/kg: 3560.00 Inhalation Rat LC₅₀, mg/m3 - h: 5.46 - 4

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

Not Available

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

Available

Potential Symptoms: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Flathead minnow LC₅₀: 25.80 mg/l - 25.80 hrs.

Water flea LC₅₀: 195.00 mg/l - 195.00 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> Butyraldehyde

DOT UN Number: UN1129

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

DOT Packing Group: PGII

<u>IMDG Shipping Name:</u> Butyraldehyde

IMDG UN Number: UN1129

IMDG Hazard Class: Class 3

IMDG Packing Group: PGII

Marine Pollutant: No

<u>IATA Shipping Name:</u> Butyraldehyde

IATA UN Number: UN1129

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: Yes

European Union

European Inventory of Existing Chemical Substances (EINECS): 204-646-6

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: 9/26/2022

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.