



SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name:

Valeraldehyde 98%

Product Code: V00040

- Supplier:Pfaltz & Bauer, Inc.172 E. Aurora StreetWaterbury, CT 06708 USA
- <u>Phone:</u> 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, Irritant, Respiratory irritant

- <u>Acute Health Hazard:</u> Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, skin absorption and inhalation.
- Chronic Health Hazard: Not Available

<u>HMIS Rating:</u> H: 2 F: 3 P: 0

<u>NFPA Rating:</u> 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.

<u>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):</u> <u>GHS Classification in accordance with Regulation (EC) No 1272/2008:</u> 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, chronic toxicity (Category 3), H412 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:

<u>Fictogram.</u>	
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. H412 Harmful to aquatic life with-long lasting effects.
<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/[]/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.

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name:Valeraldehyde 98%Synonyms:Pentanal; Valeric aldehyde; Amyl aldehydeCAS Number:110-62-3

MDL Number:	MFCD00007026
EINECS Number:	203-784-4
Beilstein Registry Number:	1616304
Molecular Formula:	CsH10O
<u>Molecular Weight:</u>	86.13
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.
Ingestion:	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):	4	
Explosion Limits:	Lower, % by volume:	Not Available
	Upper, % by volume:	6.8
<u>Auto Ignition</u> <u>Temperature (°C):</u>	220	
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.	

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: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.

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

Handling and Storage:	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): 15 to 30

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.			
Skin Protection:	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.			
Exposure Limits:	<u>Country</u>	<u>Source</u>	<u>Type</u>	Value
	USA	ACGIH	TWA	50 ppm
	USA	OSHA	STEL	Not Available
	USA	OSHA	PEL	Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance:	Clear colorless liquid
<u>Odor:</u>	Stench
Odor Threshold:	Not Available
<u>Flash Point (°C):</u>	4

Auto Ignition Temperature (°C):	220
UEL % by Volume:	6.8
LEL % by Volume:	Not Available
<u>Melting Point (°C):</u>	-92
Boiling Point (°C):	102-103
Evaporation Rate:	Not Available
pH Value:	Not Available
Density (g/cm ³):	0.81
Refractive Index (n ²⁰ D):	1.3950
<u>Viscosity:</u>	Not Available
Solubility in Water:	Slightly soluble
Solubility in Other:	Not Available
Vapor Pressure (mmHg):	Not Available
Vapor Density (Air=1):	Not Available

SECTION 10: STABILITY and REACTIVITY

<u>Stability:</u>	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> Decomposition Products:	Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference:

YV3600000

Target Organs:	Not Available	
Toxicity Data:	Oral Mouse LD50 mg/kg: Dermal Rabbit LD50 mg/kg:	6400.00 4050.00
Carcinogenicity:	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

<u>Toxicity:</u>

Flathead minnow LC50:

12.40 mg/l - 12.40 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

DOT Shipping Name:	Valeraldehyde
DOT UN Number:	UN2058
DOT Hazard Class:	Class 3
DOT Packing Group:	PGII
IMDG Shipping Name:	Valeraldehyde
IMDG UN Number:	UN2058
IMDG Hazard Class:	Class 3
IMDG Packing Group:	PGII
Marine Pollutant:	No
IATA Shipping Name:	Valeraldehyde
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): 203-784-4

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

<u>Canada</u>

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.