

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Peracetic acid 35%

Product Code: P05020

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: Corrosive, Environmentally hazardous, Flammable liquid, Irritant, Respiratory irritant, Self-reactive substance, Toxic

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be toxic by ingestion and inhalation, harmful by skin absorption.

Chronic Health Hazard: Not Available

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

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

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):

Acute toxicity, dermal (Category 4), H312
Acute toxicity, inhalation (Category 3), H331
Acute toxicity, oral (Category 3), H301
Flammable liquids (Category 3), H226
Hazardous to the aquatic environment, chronic toxicity (Category 1), H410
Self-reactive substances and mixtures and Organic peroxides (Category Types C, D, E, F), H242
Skin corrosion/irritation (Category 1A), H314
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

Pictogram:



Signal Word:

Danger

Hazard Statement(s):

H226 Flammable liquid and vapor.
H242 Heating may cause a fire.
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long-lasting effects.

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P234 Keep only in original container.
P235 Keep cool.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
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.
P309+P311 IF exposed or if you feel unwell: call a POISON CENTER or doctor/physician.
P410 Protect from sunlight.

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Peracetic acid 35%

Synonyms: Peroxyacetic acid; Acetyl hydroperoxide

CAS Number: 79-21-0

MDL Number: MFCD00002128
EINECS Number: 201-186-8
Beilstein Registry Number: 1098464
Molecular Formula: C₂H₄O₃
Molecular Weight: 76.05
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): 46

Explosion Limits: Not Available

Auto Ignition Temperature (°C): 218

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.

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

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.

Sensitivities: Light, Shock

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.

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.

<u>Exposure Limits:</u>	<u>Country</u>	<u>Source</u>	<u>Type</u>	<u>Value</u>
	USA	ACGIH	TWA	Acetic Acid: 10 ppm
	USA	OSHA	STEL	Acetic Acid: 15 ppm
	USA	OSHA	PEL	Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance: Colorless liquid

Odor: Pungent, Vinegar-like

Odor Threshold: Not Available

Flash Point (°C): 46

Auto Ignition Temperature (°C): 218

<u>UEL % by Volume:</u>	Not Available
<u>LEL % by Volume:</u>	Not Available
<u>Melting Point (°C):</u>	-44
<u>Boiling Point (°C):</u>	107
<u>Decomposition Temperature (°C):</u>	55
<u>Evaporation Rate:</u>	Not Available
<u>pH Value:</u>	<1
<u>Density (g/cm³):</u>	1.13
<u>Refractive Index (n^{20D}):</u>	1.3876
<u>Viscosity:</u>	Not Available
<u>Solubility in Water:</u>	Soluble, 10 g/100 mL
<u>Solubility in Other:</u>	Not Available
<u>Vapor Pressure (mmHg):</u>	20
<u>Vapor Density (Air=1):</u>	Not Available

SECTION 10: STABILITY and REACTIVITY

<u>Stability:</u>	Stable under normal temperatures and pressures.
<u>Incompatibility:</u>	Strong reducing agents, Strong bases, Soluble carbonates and phosphates, Amines, Alcohols, Heavy met
<u>Reactivity:</u>	Product may react with incompatible materials to release other hazardous substances.
<u>Conditions to Avoid:</u>	Heat, flame, sparks, other ignition sources.
<u>Hazardous Decomposition Products:</u>	Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

<u>RTECS Reference:</u>	SD8750000
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<u>Target Organs:</u>	Respiratory system								
<u>Toxicity Data:</u>	<table> <tr> <td>Oral Rat LD₅₀ mg/kg:</td> <td>50.00</td> </tr> <tr> <td>Oral Mouse LD₅₀ mg/kg:</td> <td>210.00</td> </tr> <tr> <td>Dermal Rabbit LD₅₀ mg/kg:</td> <td>200.00</td> </tr> <tr> <td>Inhalation Rat LC₅₀, mg/m³:</td> <td>450.00</td> </tr> </table>	Oral Rat LD ₅₀ mg/kg:	50.00	Oral Mouse LD ₅₀ mg/kg:	210.00	Dermal Rabbit LD ₅₀ mg/kg:	200.00	Inhalation Rat LC ₅₀ , mg/m ³ :	450.00
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Inhalation Rat LC ₅₀ , mg/m ³ :	450.00								
<u>Carcinogenicity:</u>	<p>National Toxicology Program (NTP) listed: Not Available</p> <p>International Agency for Research on Cancer (IARC) listed: Not Available</p>								
<u>Potential Symptoms:</u>	Not Available								

SECTION 12: ECOLOGICAL INFORMATION

<u>Toxicity:</u>	Rainbow trout LC ₅₀ :	0.53 mg/l - 96 hrs.
	Bluegill LC ₅₀ :	1.10 mg/l - 96 hrs.
	Water flea LC ₅₀ :	0.73 mg/l - 0.73 hrs.
	Green Algae LC ₅₀ :	0.16 mg/l - 72 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>	Organic Peroxide Type F, Liquid
<u>DOT UN Number:</u>	UN3109
<u>DOT Hazard Class:</u>	Class 5.2,8,3
<u>DOT Packing Group:</u>	No Packing Group
<u>IMDG Shipping Name:</u>	Organic Peroxide Type F, Liquid
<u>IMDG UN Number:</u>	UN3109
<u>IMDG Hazard Class:</u>	Class 5.2,8,3
<u>IMDG Packing Group:</u>	None
<u>Marine Pollutant:</u>	No

IATA Shipping Name: Organic Peroxide Type F, Liquid

IATA UN Number: UN3109

IATA Hazard Class: Class 5.2,8,3

IATA Packing Group: None

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 313) listed: Yes

European Union

European Inventory of Existing Chemical Substances (EINECS): 201-186-8

Canada

Canadian Domestic Substances List (DSL) listed: Yes

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

SECTION 16: OTHER INFORMATION

Date Prepared: 10/1/2018

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.