

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Peracetic Acid 15%
CAS number	See section 3 for component information
Synonyms	None

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Biocide, Bactericide
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

<b>Emergency Phone #</b>	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids - Category 4  
Acute toxicity (Oral) - Category 4  
Acute toxicity (Inhalation) - Category 4  
Acute toxicity (Dermal) - Category 4  
Skin corrosion - Category 1  
Serious eye damage - Category 1  
Specific target organ toxicity - single exposure - Category 3  
Acute aquatic toxicity - Category 1

Chronic aquatic toxicity - Category 1

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

### Hazard statements

- Combustible liquid.
- Harmful if swallowed, in contact with skin or if inhaled
- Causes severe skin burns and eye damage.
- Causes serious eye damage.
- May cause respiratory irritation.
- Very toxic to aquatic life with long lasting effects.

### Precautionary statements

- Prevention
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Avoid breathing dust/fume/gas/mist/vapors/spray
  - Wash skin thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Avoid release to the environment.
  - Wear protective gloves/protective clothing/eye protection/face protection.
- Reaction
- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
  - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call POISON CENTER/doctor.
  - Wash contaminated clothing before reuse.
  - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Collect spillage.
- Storage
- Store in a well-ventilated place. Keep container tightly closed.
  - Store in a well-ventilated place. Keep cool.
  - Store locked up.
- Disposal
- Dispose of contents/container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None known

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Peracetic acid	-	79-21-0	14%-17%
Acetic acid	-	64-19-7	24%-29%
Hydrogen peroxide	-	7722-84-1	13%-15%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

<b>If inhaled</b>	Potential for exposure by inhalation if aerosols or mists are generated. Move victims to fresh air. With labored breathing: Provide with oxygen. Consult a doctor. If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.
<b>In case of skin contact</b>	Wash off affected area immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a physician for treatment.
<b>In case of eye contact</b>	With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Consult an ophthalmologist immediately if the symptoms persist. When dealing with caustic substances, notify emergency physician immediately.
<b>If swallowed</b>	Rinse mouth. Immediately give large quantities of water to drink. Obtain medical attention. When dealing with caustic substances, notify emergency physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Irritation of skin and mucous membranes. Causes burns. Daze, headache, vertigo, somnolence (sleepiness), nausea. Health injuries may be delayed. Strongly irritating to corrosive. Harmful in contact with skin and if swallowed.

### 4.3 Indication of any immediate medical attention and special treatment needed

The initial focus is only on the local action, characterized by quickly progressing deep tissue damage. In the eye, caustic/ irritating and harmful liquids cause, depending on the intensity of exposure, various levels of irritation, destruction, and ablation of the epithelium of the conjunctiva and cornea, corneal clouding, edema and ulcerations. Danger! Possible loss of eyesight! Superficial irritations and damage up to ulcerations and scarring develop on the skin. After accidental absorption in the body, the pathology and clinical findings are dependent on the kinetics of the substance (quantity of absorbed substance, the absorption time, and the effectiveness of early elimination measures (first aid)/ excretion - metabolism). A specific action of the substance is unknown. In case of substances with high water solubility, irritations up to formation of necrosis in the upper respiratory tract may result after inhalation of caustic/ irritating aerosols and mists. The initial focus is on the local action: signs of irritation of the respiratory tract such as coughing, burning behind the sternum, tears, burning in the eyes or nose. There is a risk of pulmonary edema!

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder, carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing media</b>	Organic compounds

### 5.2 Specific hazards arising from the substance or mixture

Contact with the following substances may cause inflammation: flammable substances  
Involved in fire, it may decompose yielding oxygen.  
Risk of overpressure and burst due to decomposition in confined spaces and pipes.  
Release of oxygen may support combustion. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely. Keep away from heat.  
If necessary: In the case of fire, cool the containers that are at risk with water or dilute with water (flooding)

### 5.3 Special protective equipment and precautions for firefighters

Evacuate personnel to safe areas. Keep out unprotected persons. Keep unauthorized persons away. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations. As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

### 5.4 Further information

<b>Flash Point</b>	No information
<b>Autoignition Temperature</b>	No information
<b>Explosion limits</b>	

**Upper**      No information  
**Lower**      No information  
**Sensitivity to Mechanical Impact**      No information  
**Sensitivity to Static Discharge**      No information  
**NFPA**

Health	Flammability	Instability	Physical hazards
3	2	1	-

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep out unprotected persons. Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (e.g. inert absorbent universalbinder) pick up. Do not use: textiles, saw dust, combustible substances. Rinse away any residue with plenty of water. Dispose of absorbed material in accordance with the regulations. Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal. Clean contaminated surface thoroughly. Recommended cleaning agent: water. Ventilate room.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Precautions on safe handling

andle in accordance with good industrial hygiene and safety practice. Use personal protective equipment. Check the proper condition of personal safety equipment before use. Observe ergonomic requirements when selecting personal safety equipment. Avoid contact with eyes, skin, and clothing. The work-place related airborne concentrations have to be kept below of the indicated exposure limits. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. Do not breathe in vapours, aerosols, sprays. Ensure there is good room ventilation. Immediately change moistened and saturated work clothes. Immediately rinse contaminated or saturated clothing with water. Avoid impurities and heat effect. Never return spilled product into its original container for re-use. (Risk of decomposition.). Provide for installation of emergency shower and eye bath. Set up safety and operation procedures. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product..

### **Hygiene measures**

Avoid contact with eyes, skin, and clothing. Do not inhale vapour, aerosols, mist. Ensure there is good room ventilation. Immediately rinse contaminated or saturated clothing with water. Immediately change moistened and saturated work clothes. Any contaminated protective equipment is to be cleaned after use. Contaminated work clothing should not be allowed out of the workplace. No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work. Preventive skin protection. Use barrier cream regularly.

## **7.2 Conditions for safe storage, including any incompatibilities**

### **Storage conditions**

Avoid sun rays, heat, heat effect. Temperature requirement during storage max. 40 °C. Store in original container. well ventilated, dry, clean, lockable. Use adequate venting devices on all packages, containers and tanks and check correct operation periodically. Do not confine product in unvented vessels or between closed valves. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Check containers and tanks at regular intervals to detect any special changes such as pressure build-up (distension), damage, leakage. Transport and store container in upright position only. Do not empty container by means of pressure. Always close container tightly after removal of product. Do not keep the container sealed. Assure impermeability at all times. Avoid residues of the product on the containers. Store containers in such a manner that liquids released are collected in a catch vessel in case of leaks. Do not store together with: alkalis, reductants, metallic salts (risk of decomposition). Do not store together with: inflammable substances (risk of fire). Keep away from incompatible substances. Release of oxygen may support combustion. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Regularly verify the availability of water to deal with emergencies (for cooling, tank flooding, fire fighting) and check correct operation periodically. For detailed information on design specifications for the construction of tank- and dosing installations ask the producer for advice. Only use containers which are specially permitted for: Peracetic acid. For transport, storage and tank installations only use suitable materials. - Suitable container material: Polyethylene. polypropylene polytetrafluoroethylene Polyvinyl chloride (PVC). glass ceramics.

## Incompatibilities

alkalis, reductants, metallic salts, flammable substances, Iron, Copper, Brass, Bronze, Aluminum, Zinc, Lead, Tin

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value	
Acetic acid	PEL	10 ppm	25 mg/m <sup>3</sup>
Hydrogen peroxide	PEL	1 ppm	1.4 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

Component	Type	Value	
Acetic acid	STEL	15 ppm	
	TWA	10 ppm	
Hydrogen peroxide	TWA	1 ppm	

#### Biological occupational exposure limits

Component	Type	Value	
Acetic acid	Ceiling	40 ppm	
	TWA	10 ppm	25 mg/m <sup>3</sup>
Hydrogen peroxide	TWA	1 ppm	
	PEL	1 ppm	mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure suitable suction/aeration at the work place and with operational machinery. Provide for installation of emergency shower and eye bath. see also section 7.

#### Personal protective equipment

##### Eye/face protection

Use chemical splash goggles or face shield. When handling larger quantities: protective screen.

##### Skin protection

Wear protective clothing, acid-proof. Suitable materials are: PVC, neoprene, nitrile rubber, rubber. A safety shower and eye wash fountain should be readily available.

##### Body Protection

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29 CFR 1910.132) be conducted before using this product.

### Respiratory protection

Do not inhale vapor, aerosols, mist. If workplace exposure limit is exceeded apply Respiratory protective equipment. Wear a self-contained respiratory apparatus. If necessary: Local ventilation. A respiratory protection program that meets OSHA 1910.134 and ANSI z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators. Note time limit for wearing respiratory protective equipment.

### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Stinging
Odor Threshold	No data available
pH	ca. -0.6 (20 °C) Medium: Product
Melting Point/Range	ca. -50 °C Decomposition
Boiling Point/Range	No data available
Evaporation Rate	No data available
Flammability (solid)	No data available
Flammability or explosive limit	No data available
Upper	
Lower	
Vapor Pressure	ca. 25 hPa (20 °C)
Vapor Density	No data available
Density	ca. 1.15 g/cm <sup>3</sup> (20 °C)
Solubility	Completely miscible in water
Partition coefficient; n-octanol/water	log Pow: -0.52
Autoignition Temp	260 °C Method: DIN 51 794
Decomposition Temp	No data available
Viscosity	1.554 mm <sup>2</sup> /s (20 °C, OECD 114)   1.017 mm <sup>2</sup> /s (40 °C, DIN 51 562)
Molecular Formula	Homogenous mixture
Molecular Weight	76.05 g/mol
VOC Content(%)	No data available
Oxidizing properties	No data available

### 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity



## 10.1 Reactivity

Risk of self-accelerating, exothermic decomposition with the development of oxygen, Effect of thermal energy / heat. Product is a(n) oxidizing agent and reactive.

## 10.2 Chemical stability

Stable under recommended storage conditions. Product is supplied in stabilised form.

## 10.3 Possibility of hazardous reactions

Stable under recommended storage conditions. Product is an oxidizing agent and reactive. Product is supplied in stabilised form. Danger of decomposition if exposed to heat. When coming in contact with the product, impurities, decomposition catalysts, metallic salts, alkalis, reducing agents may lead to self-accelerated, exothermic decomposition and the formation of oxygen. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Release of oxygen may support combustion.

## 10.4 Conditions to avoid

Sun rays, heat, heat effect

## 10.5 Incompatible materials

Impurities, decomposition catalysts, metal salts, alkalis, reducing substances, metals, nonferrous heavy metal, aluminium, zinc. Possible hazardous reaction: decomposition. Flammable materials. Possible hazardous reaction: Spontaneous ignition. Organic solvents, Possible hazardous reaction: Danger of explosion.

## 10.6 Hazardous decomposition products

Steam, oxygen.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Peracetic acid 15%	1015 mg/kg	1912 mg/kg	0.49 mg/l

#### Skin corrosion/irritation

Strongly corrosive. (Test substance: peracetic acid 5%)

#### Serious eye damage/eye irritation

Corrosive (Test substance: peracetic acid 5%)

#### Respiratory or skin sensitization

Strongly corrosive (Test substance: peracetic acid 10%)

#### Germ cell mutagenicity

Ames test: predominantly negative.

### Carcinogenicity

No information available

### Specific target organ toxicity - single exposure

Respiratory system

### Specific target organ toxicity - repeated exposure

No information available

### Reproductive toxicity

Teratogenicity: Low body weight, disturbed ossification, no indication of development toxicity in

NOAEL (No observed adverse effect level): 30.4 mg/kg

NOAEL Maternal (No observed adverse effect level): 12.5 mg/kg

### Chronic effects

No information available

## 11.2 Additional Information

No information available

## SECTION 12: Ecological information

### 12.1 Toxicity

Product		Species	Test Results	
Peracetic acid	LC50	Freshwater fish ( <i>P. platessa</i> )	11 mg/l	96h
	LC50	Freshwater fish ( <i>O. mykiss</i> )	1-2 mg/l	96h
	EC50	Water flea ( <i>D. magna</i> )	0.5 - 1.1 mg/l	48h
	IC50	Algae ( <i>S. capricornutum</i> )	0.18 mg/l	120h
	EC50	Activated sludge	5.1 mg/l	3h
	NOEC	Fish ( <i>D. rerio</i> )	0.015 mg/l	33d
	NOEC	Water flea ( <i>D. magna</i> )	0.05 mg/l	21d
	EC50	Microtox	>933.6 mg/kg	28d
PAA solution	NOEC	Water flea ( <i>D. magna</i> )	1 mg/l	48h
	EC50	Water flea ( <i>D. magna</i> )	3.3 mg/l	48h
	LC50	Microtox ( <i>E. foetida</i> )	>1000 mg/kg	14d
	NOEC	Terrestrial plants	180 mg/kg	14d

### 12.2 Persistence and degradability

Readily biodegradable (according to OECD TG 301 E)

### 12.3 Bio accumulative potential

Low; see section 9 for log pow.

### 12.4 Mobility in soil

No information available

## 12.5 Results of PBT and vPvB assessment

No information available

## 12.6 Endocrine disrupting properties

No information available

## 12.7 Other adverse effects

Does not contain any heavy metals and compounds from EC directive 76.464

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Rinse empty containers before disposal; recommended cleaning agent: water. Offer rinsed packaging material to local recycling facilities. Dispose of containers that have not been emptied completely and or cleaned of substance.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

UN-no	UN3109
UN Proper Shipping Name:	Organic peroxide type F, liquid (Peroxyacetic acid, type F stabilized - 14%-17%, contains acetic acid).
Transport hazard class	5.2(8)
Packing group	II
Special precautions for user:	Yes Keep separate from alkalis, powdered metals and flammables.

### IMDG

UN-no	UN3109
UN Proper Shipping Name:	Organic peroxide type F, liquid (Peroxyacetic acid, type F
Transport hazard class	5.2(8)
Packing group	--
Special precautions for user:	Yes
EmS:	F-J, S-R

"Separated from" acids and alkalis. Protected from sources of heat. Keep separate from alkalis, powdered metals and flammable substances.

### IATA

UN-no	UN3109
UN Proper Shipping Name:	Organic peroxide type F, liquid (Peroxyacetic acid, type F
Transport hazard class	5.2(8)
Packing group	--
Special precautions for user:	Yes

IATA-C: ERG Code 5L: Must be protected from direct sunlight and stored away from all sources of heat in a well-ventilated area.

IATA-P: ERG Code 5L: Must be protected from direct sunlight and Keep separate from alkalis, powdered metals and flammable substances.

## SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Acetic acid RQ: 31250 lbs

**SARA 304 Emergency release notification**

Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

Acute Health Hazard. Fire Hazard.

**SARA 313 (TRI reporting)**

Peracetic acid (CAS: 79-21-0)

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed

**US. New Jersey Worker and Community Right-to-Know Act**

Listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.