

01. Identification of Product and Company

Product name: ACTRIL® Cold Sterilant
Article numbers: 78397-640 / 78397-863
Application: Disinfection liquid
Company name: Minnotech BV
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The Netherlands
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02. Composition/Information on Ingredients

Component	EINECS	CAS	Amount w/w [%]	Symbol/ R-phrases
Hydrogen Peroxide	231-765-0	7722-84-1	0.9 – 1.1	Xi: 36/37/38
Peracetic Acid	201-186-8	79-21-0	<1.0	N/A
Acetic Acid	200-580-7	64-19-7	4.9 – 5.5	N/A

03. Hazards Identification

Irritating to eyes, respiratory system and skin

04. First Aid Measures

General

If clothing is contaminated, remove clothing, and wash clothing before reusing.

Eyes and skin

Flush immediately with excess water for at least 15 minutes. If burn or irritation has occurred, seek medical attention. If clothing is contaminated, remove clothing, wash skin and wash clothing before reusing.

Ingestion

Drink large amounts of water. Do not induce vomiting.

Inhalation

Move to fresh air and breathe deeply

05. Fire Fighting Measures

Extinguishing Media

Water spray / Foam / CO₂ / dry chemicals

Extinguishing Media to Avoid

Direct water jet.

Exposure Risks from Combustion Product / Gases

Danger of developing toxic Pyrolyse products.

Special Equipment for Firefighters

Protect the respiratory ways. Use visors and gloves.

Additional Measures

Cool risky containers with water spray. Burning products and contaminated water shall be disposed according to local laws and requirements.

06. Accidental Release Measures

Personal Precautions

Put on eye protection, protective gloves, boots, clothing and a respirator if air contamination is above the permitted levels. Arrange sufficient ventilation of air. People should move away from any vapors in the contaminated area.

Environmental Precautions

In case of accidental spillage, contain the spill and neutralize it with sodium bicarbonate or sodium carbonate.

If allowed by local legislation:

Flush spill to the sewer. If mops, towels, paper towel or similar material is used, insure that these items are thoroughly rinsed with large amounts of water. Do not reuse the liquid material.

07. Handling and Storage

Handling

Keep container closed, but vented when not in use. Do not transfer product from original container and once the product has been removed, do not return to the original container. Exhaust required at point of use.

Fire- and Explosion

Keep away from heating/ignition sources.
Do not smoke.

Storage

Store in a cool, dry area (below 24°C) away from heating sources. Heating will lead to pressure increase and danger of burst. Floors need a protective coating against acid.

Combined Storage

Do not store with flammable materials, metals, or oxidizing materials.

08. Exposure Controls/Personal Protection Technical Measurements

Assure sufficient air exhaust and supply of fresh air.

Exposure limits at work place

Component

Peracetic Acid

MAK/TLV: 10ppm, MAK/TLV: 25 mg/m³,
F=1=(DFG, EU)

Hydrogen Peroxide

MAK/TLV: 1ppm, MAK/TLV: 1,4 mg/m³,
F=1=(DFG)

MAK = maximum work place concentration, TLV =
Threshold Limit Value, F = Factor, Short Limit value.

Respiratory protection

If air contamination is above the permitted levels, use a mask for acid vapors, Combination filter B-P2.

Hand protection

Protective gloves (e.g. Nitrile or Latex). Refer to glove manufacturer specifications for compatibility.

Eye protection

Safety glasses or goggles. A face shield should be worn when splashes are likely.

Skin protection

Protective apron should be worn when splashes are likely. Appropriate boots should be used for spill response.

General Measurements

Avoid contact with eyes and skin. Do not breath gases / vapors / aerosols.

Hygienic Measurements

Do not eat, drink, or smoke. Immediately remove contaminated clothing. Wash hands before breaks and at end of shift. Preventive hand care by hand crème.

Limitation and Monitoring of Environmental Emission

Not determined.

09. Physical and Chemical Properties

Physical state:	liquid
Appearance:	clear
Odor:	acid, pungent
pH:	1,87
Boiling point [°C]:	Not determined
Flashing point [°C]:	Not determined
Ignition conditions:	Not determined
Lower explosion limit:	Not determined
Upper explosion limit:	Not determined
Fire fortifying:	Yes
Vapor pressure at 50°C [kPA]:	Not determined
Vapor density [g/ml]:	1,01
Specific gravity (H ₂ O) [kg/l]:	1,01
Solubility in water (by weight):	complete
Ratio n-Octanol / Water:	Not determined
Viscosity:	Not determined
Relative vapour density relative to air:	Not determined
Evaporation rate:	Not determined
Freezing point [°C]:	Not determined
Melting point [°C]:	Not determined
Self-reactivity:	Not a self reactive substance

10. Stability and Reactivity

Materials to Avoid

Avoid heavy metals including iron, copper, copper alloys, brass and aluminum, salts, flammable organics, alkalis, caustics, chlorine and formaldehyde.

Stability

Product is stable.

Conditions to Avoid

Avoid direct sunlight, heat and hot storage (>24°C).

Hazardous Decomposition

Oxygen and heat.
Do not mix with chlorinated products as this could liberate toxic corrosive chlorine gas.

Hazardous Polymerisation

Will not occur

11. Toxicological Information

Acute oral toxicity

See Comment

Acute dermal toxicity

See Comment

Acute inhalation toxicity

See Comment

Irritating to eye

See Comment

Irritating to skin

See Comment

Sensitivity / Performance

Not determined

Sub acute toxicology

See Comment

Chronically Toxicity

See Comment

Mutability / Performance

See Comment

Reproduction toxicity / Performance

See Comment

Comment: This product has been tested for FDA purposes and determined not be toxic to humans

Cancer Related Information

Peracetic Acid

NTP: Known: No / Anticipated: No

IARC: None

OSHA: No

Hydrogen Peroxide

NTP: Known: No / Anticipated: No

IARC: None

OSHA: No

Acetic Acid

NTP: Known: No / Anticipated: No

IARC: None

OSHA: No

Practical experience

None.

General Remarks

The classification is preformed based on calculations of the preparation guidelines.
No toxicological data available.

12. Environmental Information

Fish toxicology

Not determined

Bacteriological toxicology

Not determined

Persistence and biodegradability

Not determined

Chemical Oxygen-Requirement

Not Determined

Biochemical Oxygen Requirement

Not Determined

AOX-indication

No dangerous substances included

Containment assembly connections according 76/464/EEC

Not applicable

General Indications

Ecological data of end product is not available.

13. Disposal Considerations

Product Disposal

Dispose of this product in accordance with all applicable European and Local regulations.

Disposal of Bottle and Packaging

Bottles and packaging can be disposed according European and Local regulations. Bottles shall be thoroughly rinsed before disposal.

14. Transportation Information

14.1 Classification according to ADR

Not applicable.

14.2 Classification according to IMDG

Not applicable.

14.3 Classification according to IATA

Not applicable.

15. Regulatory Information

Symbol(s): Xi: Irritant

Risk Phrases

R36/37/38: Irritating to eyes, respiratory system and the skin.

Safety Phrases

S3/7: Keep container tightly closed in a cool place

S26: In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National Legislation

Follow all relevant national laws or other national relevant measures

16. Other information

The information provide in this Material Safety Data Sheet is correct to the best of our knowledge. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated in this document and may not be valid if this product is used in combination with any other materials or processes, unless specified in the text.

Guidelines

- 2001/58/EC
- 67/548/EEC
- 1999/45/EC
- 91/689/EEC
- 89/542/EEC
- ADR (2003)
- IMDG-Code (30. Amdt.)
- IATA-DGR (2003)