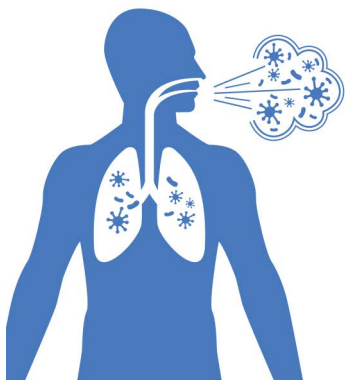


HYDROGEN PEROXIDE

Hydrogen Peroxide (H_2O_2) is a highly corrosive biocidal chemical used especially as an oxidizing and bleaching agent, an antiseptic, and a propellant. It is often used in healthcare sterile processing and aseptic packaging as an antimicrobial. The textile, pulp, paper, and food industries use Hydrogen Peroxide as a bleaching agent and H_2O_2 is also used in rocket propulsion.



Health Risks of Hydrogen Peroxide Exposure

- A mutagen – ACGIH classifies it as a ‘confirmed animal carcinogen with unknown relevance to humans’.
- Pulmonary edema • Eye damage • Damaged mucous membranes • Skin burns • Skin and hair bleaching

H_2O_2 Vapor Exposure Guidelines

OSHA PEL (Permissible Exposure Limit)	1.0 ppm
NIOSH IDLH (Immediately Dangerous to Life and Health)	75 ppm
American Conference of Governmental Hygienists (ACGIH) Threshold Limit Values (TLV)	1.0 ppm