

Safety solutions for a variety of applications !



GreenFumehoods
an alternative to
ducted fume hoods



Smart Fume Hoods
for your routine
handlings



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Laboratory Air
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Halo Sense
Lab Air Quality Sensor

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Your  **erlab** distributor
You can breathe.



**Captair
Smart**

Filtering Fume Hoods and Storage Cabinets



**Designed to provide a full protection
to the chemists at their usual
workstation for a wide variety of
chemical experiments.**

Do you know the PEL'S ?

Inhaling small quantities of chemical vapor every day can lead to severe long term health effects for chemists working in environments where a wide variety of chemical agents are used.

Even for chemicals that are individually considered to be low risk, the cumulative effects of several chemicals present in the laboratory air and the synergy effect between chemical molecules can be extremely damaging.

Every chemist should know the permissible Exposure Limits (PEL' S) for an average exposure of 8 hours per day, and should ensure that chemical concentrations within the laboratory environment are maintained at much lower levels to reduce cumulative and synergistic effects.

PEL' S list of 23 common chemicals with their possible healthy hazards:

Chemical name	PEL'S-TWA (OSHA) in ppm	Possible health hazards
Formic acid	5	Mutagen, damage optic nerve (blindness), kidneys,
Cyclohexane	300	Eyes and mucous irritation, narcosis, nausea, vomiting,
Butyl alcohol	100	Eyes, skin and mucous irritation, narcosis,
THF	200	Central nervous system depressant. Severe occipital headaches,
Diethyl ether	400	Nose and eyes irritation, dizziness, acute excitement, drowsiness, vomiting, paleness, decreased pulse rate, decreased body temperature, irregular respiration, muscle relaxation, lung irritation with increased bronchial secretions, laryngospasm, loss of consciousness, and death,
Hexane	500	Disturbances in sensation, muscle weakness, and distal symmetric pain in the legs,....
Ethyl acetate	400	Dermatitis, sensitization, with inflammation of the mucous membranes and eczema of the skin,....
Xylene	100	Gastrointestinal distress and may cause toxic hepatitis. Central nervous system depression, anemia, mucosal hemorrhage, bone marrow hyperplasia, liver enlargement, liver necrosis, and nephrosis,....
Phenol	5	Digestive disturbances, nervous system effects, and possibly skin discoloration and eruptions,....
Dichloromethan	100	Risk of cancer, adverse effects on the heart, central nervous system and liver,....
Isopropyl alcohol	400	Eyes and mucous membrane irritation, incoordination, narcosis,....
Ammomia	50	Acute lung damage - edema; asthma, pulmonary fibrosis, bronchiolitis obliterans; Eyes irritation, nose, throat, bronchi, blindness,....
Toluene	200	Liver, kidney damage; metallic taste, impaired balance, tremors, impairment of speech, hearing and vision, brain damage; loss of appetite; hyposmia, neurobehavioral abnormalities
Acetonitrile	40	Nausea, vomiting; headache; hypersalivation; chest pain or tightness
Ethanol	1000	Irritation-eye, nose, throat, skin—marked; Narcosis; reproductive impairment,....
Methyl alcohol	200	Impaired vision, headaches, nerve damage; Anesthesia; Rritation eye, nose, throat,....
Hydrochloric acid (35%)	5	Lung edema, airways obstruction, destruction of nasal passages; dental erosion;Blindness; loss of voice; potential neurobehavioral dysfunction,....
Acetic acid	10	Asthma, lung damage
Acetone	1000	Nervous system disturbances—narcosis
Nitric acid	2	Acute lung damage; irritation-eye, nose, throat, Skin—Marked
Chloroform	50	Necrosis of the liver, kidney impairment,....
Sulfuric acid	1	Cumulative lung damage; dental erosion,....
Formaldehyde	0.75	Carcinogen; short-term exposure to formaldehyde can be fatal. Long-term exposure to low levels of formaldehyde may cause respiratory difficulty, eczema, and sensitization

In the chemistry laboratories, the real risk is the daily exposure to small concentrations of a wide variety of chemicals. Flexible and efficient Captair Smart ductless filtering fume hoods and storage cabinets trap the chemicals wherever they are emitted.

<1% PEL' S



Captair Smart
Ductless Filtering Fume Hood



Captair Smart
Ductless Filtering Storage Cabinets



Can protect you where you work!



Microwave digestion

HPLC

COD

Floor-standing Filtration Storage cabinets

Under the bench Filtration Storage cabinets