

Name and Symbol

Odor

Color and state
in field

Effects on body

Persistence in
field

How used

Protection
required

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LUNG IRRITANTS

HS 303

Chlorine (Cl)

Disagreeable,
pungent

Greenish yellow
gas

Causes choking and
smarting of eyes, dis-
comfort in chest

Drifts as gas with
wind and being heavier
than air, clings in
woods and low places.

Casualty Agent

Gas Mask

Phosgene (CG)

Disagreeable, pungent
like new cut hay or
cut corn

First, white changing
to colorless vapor

Choking, coughing,
pains in lower chest.
9 times more toxic than Cl

Vaporizes almost imme-
diately. Same as Cl, per-
sists in low places.

Casualty Agent

Gas Mask

Chloropicrin (PS)

Sweetish, like fly paper

Oily liquid changing slowly
in field to colorless vapor

Also a lacrimator. Tears
coughing, nausea. Half as
toxic as Phosgene.

A persistent agent 1 to 12
hours.

Casualty Agent

Gas Mask

VESICANTS

Lewisite (ML)

Like Geranium leaves

Dark brown liquid, changing slowly
to a colorless vapor

Blisters skin, lung irritant, burns
eyes.

Dispersed as liquid which slowly
changes to gas. In summer per-
sists 24 hours in open; 2 or 3
days in woods. Winter lasts 1 week.

Casualty Agent

Gas Mask. Protective Clothing

Mustard (HS)

Like garlic or horseradish

Dark brown liquid, changing slowly into
a colorless vapor.

Blisters skin, lung irritant, eyes burn
and inflame.

Dispersed as liquid slowly changing to gas.
Very persistent. Summer 4 or 5 days in open.
1 week in woods. Winter several weeks.

Casualty Agent

Gas Mask. Protective Clothing

LACRIMATORS

Name and Symbol	Chloracetophenone (CN)	Tear Gas Solution (CNS)
Odor	Like apple blossoms	Like fly paper
Color and state in field	Bluish gray smoke from burning type; colorless when shot from shells.	A colorless liquid, changing to colorless vapor.
Effects on body	Piercing irritation of eyes causing profuse tears. Mild concentrations very effective.	Piercing irritation of the eyes, profuse tears followed by nausea and vomiting.
Persistency	Cloud of gas drifts with wind.	Not very persistent. 1 hour in open and 2 hours in woods
How used	For harassing effect.	For harassing effect.
Protection required	Gas Mask	Gas Mask

IRRITANT

SMOKES

(STERNUTATORS)

- ADAMSITE (DM) Has odor slightly like coal smoke. Color a yellow smoke cloud. Effect on body is immediate sneezing followed by headache and vomiting. Temporary only. Used for harassing effect. Gas Mask-Protection.
- Sneeze Gas (DA) Greyish smoke cloud. Sneezing and burning sensation of nose and throat. Temporary only. Used for harassing effect. Protection: Gas Mask.
- White Phosphorous (WP) Odor like phosphorous matches. Particles produce severe fire burns which heal very slowly. Apply copper sulfate solution. This coats the particles with copper and effectively prevents further burning. Remove solid particles and treat like ordinary burn. If no Copper Sulfate available keep under water until it is available, or cover with wet cloths or mud. No protection required for smoke.

INCENDIARY BOMBS

The most common type of incendiary bomb is one with a body composed almost entirely of magnesium and containing a core of Thermit with the starting mixture. In some cases an explosive charge is also included. Ignition occurs on impact, the thermit burns for about one minute at 4500 degrees Fahrenheit and, in turn, ignites the Magnesium which burns at 2300 degrees Fahrenheit (white hot steel) for about 15 minutes. It is dangerous to approach the bomb until the Thermit has completely burned and there is no danger of an explosion (2 minutes).

Best equipment to combat this type of bomb is a hand water pump with a spray nozzle. Dry sand and earth can be used.