

SAFEGUARD

— WATER MIST —



FOR ADVANCED FIRE PROTECTION

Effective extinguishing & reflammation prevention.

Environment, material and personnel friendly.

Applicable especially in engine compartment protections like in forest machines, buses and boats.



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— WATER MIST —

- PREVENTS EFFECTIVELY AGAINST REFLAMMATION -

SAFEGUARD, which is based on water & microemulsion consisting of monammonium compounds, is one of the most effective extinguishants for engine compartments and it functions in 3 phases at fire situation:

- Phase 1:** Forces oxygen aside and smothers flames.
Phase 2: Cools down the fire by absorbing great amount of energy.
Phase 3: Forms a film on burning surfaces, which prevents effectively against reflammation.

Health and environment:

- 1: Does not form halogens when burning - not destroying ozone layer.
- 2: Does not form carbon dioxide when burning - not causing greenhouse effect.
- 3: pH-value is 7 - 7,5 which is regarded as neutral.
- 4: Does not cause negative effects for nature when e.g. extinguishing forest fires.
- 5: Does not cause corrosion when in contact with e.g. eye or skin.

Extinguishing:

SAFEGUARD, which does not dissolve to alcohol, extinguishes effectively different types of fire, even unleaded petrol, acetone and some chemicals.

Anti-freeze:

With **SAFEGUARD-FR** de-icer the extinguishant can be protected against freezing down to -30 °C.

No harmful extinguishant residuals:

There are no harmful extinguishant residuals left after extinguishing with **SAFEGUARD**, which would be difficult or expensive to repair. After extinguishing e.g. a engine fire, the engine compartment needs only washing with water. This can even be done during next regular service.

Example: An engine compartment of a machine was spurted with **SAFEGUARD**.
After 3 years no corrosion was detected on motor and electric components.

Classification:

SAFEGUARD-F (non foaming) **A** fires
SAFEGUARD-U (foaming) **AB** fires

SAFEGUARD 3060-U meets extinguishing and reflammation requirements according to the NT-Fire 023 for direct extinguishing of petroleum fires.

Approval:

SAFEGUARD has been approved for use in forest and other machinery e.g. according to SBF 127 standard.

SAFEGUARD has also been accepted by several insurance companies to replace halon and powder in fire extinguishing systems of forest and other machinery.

Useage:

No freeze protection: 10% of Safeguard concentrate + 90% water.
Freeze protected -30 C: 20% of Safeguard concentrate + 30% SG-FR de-icer + 50% water.
Pressurizing: Nitrogen, about 15 bars.

Storage:

| | | | | |
|---------------------|--------|----------|----------|------------|
| Concentrate: | SG-F | 10 years | SG-FR | > 10 years |
| | SG-U | 7 years | | |
| Ready mixed liquid: | SG-F/0 | 7 years | SG-F/-30 | 7 years |
| | SG-U/0 | 5 years | SG-U/-30 | 5 years |