

GS-4®

Horticultural glass cleaner

GS-4 is a glass cleaner suitable for glass greenhouses. GS-4 contains no hydrogen fluoride gas and has virtually no vapour effect. This is why GS-4 is safer for humans and the environment.

Advantages:

- Removes dirt such as soot, dust and algae.
- Suitable for use on the inside and outside of glass greenhouses.
- Will not roughen the glass surface.
- Contains ammonium bifluoride instead of hydrogen fluoride gas.
- Has virtually no vapour action.
- Is therefore safer for humans and the environment.

Many glass cleaners contain hydrogen fluoride as active ingredient. Using such products has many serious disadvantages:

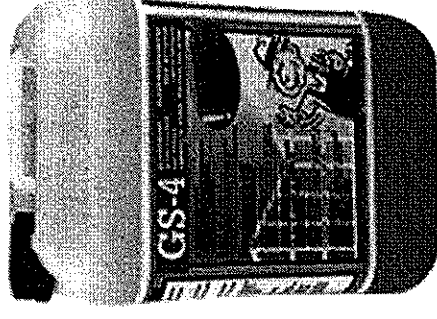
- Hydrogen fluoride is a highly toxic gas. Products based on this substance have a vapour effect and are therefore harmful to humans as well as to crops.
- Hydrogen fluoride acts aggressively on glass. It may roughen the glass, thus accelerating the accumulation of dirt.

Technical information

The cleaning of greenhouses is of vital economic importance to greenhouse horticulture. A truly clean greenhouse can be achieved by using an agent containing fluoride. An extremely thin layer (several microns) of glass is dissolved, causing the dirt to detach from the glass and allowing it to be rinsed off with water without the use of any mechanical tools.

The advantage of GS-4

- Virtually no vapour.
- Therefore safer in use than other fluoride containing products.
- Excellent cleaning ability.
- Less harmful to humans, crops and the environment.



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Application

Depending upon the amount of dirt on the glass, GS-4 should be diluted with clean water 5 to 20 times. Apply GS-4 to the glass by misting. Allow to act on the glass and then rinse it with generous amounts of water. Never let it dry in.

Important:

- Do not allow the product to dry on the glass as it may then cause whitening.
- GS-4 cannot be used to remove chalk.
- Do not drain the dilution with GS-4 into a basin.
- **Do not use with fluor-sensitive crops (such as bulb crops or orchids)!**

GS-4 and your health

Ammonium-bifluoride solutions are toxic and corrosive. Avoid eye and skin contact by wearing safety goggles and protective clothing. In case of skin contact, thoroughly rinse with water. In case of eye contact, rinse with clean water for at least 10 minutes and consult a physician.

The Environment

If GS-4 is used correctly, the ammonium-bifluoride is entirely transformed into ammonium-hexafluorosilicate. This silicate reacts with substances in the soil, forming compounds which are naturally present in the soil. The residual water containing GS-4 may be drained into surface waters.

