TECHNICAL DATASHEET GS-4



Product information

Category	Cleaner for greenhouse glass
Description	GS-4 is a cleaning agent specially developed for glasshouses. It effectively removes dirt such as soot, dust and rust. This cleaner works without the need for brushing. Simply spraying the surface with the right concentration and then rinsing with water effectively removes the dirt.
Properties	• Especially for greenhouse glass, not suitable for plastic greenhouses. • Effectively removes dirt without damaging or roughening the glass. • Removes dirt without brushing. Simply spray the surface and rinse with water. • Does not contain hydrogen fluoride gas and is therefore safer to use. • GS-4 can be used on both the inside and the outside of a glass greenhouse.
Recommended use	For interior and exterior greenhouses
Recommended surface	Glass
Identified users	For professional use only

Technical specifications

Physical state	Liquid
Colour	Orange
Odour	Characteristic
pH	3
Flammability (solid, gas)	Nonflammable
Explosive properties	None
Solubility	Soluble in water. Insoluble in organic solvents.
Density	1,04 g/cm^3
Viscosity	1,5 mPa.s Brookfield LV, ULA adapter, 100 rpm, 20°C
Transport regulation (ADR, RID, IMDG, IATA, IDN)	Yes, restrictions for dangerous goods.

Storage conditions

Packaging	20 liter can 1 pallet contains 48 cans
Shelf life	Unopened cans have a maximum shelf life of three years. Keep only in the original container in a cool, well-ventilated place. Product should be protected against frost (below 0 °C) and overheating (above 35 °C).

This technical datasheet is based on many years of experience. We can not be held liable for any damages resulting from the use of this product or any damages beyond her control. The customer should check, using the means normally available to him, whether the products supplied are suitable for the planned application. If in doubt, consult our technical specialists via sales@redusystems.com.

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Instructions for use

Surface preparation	Apply on a dry surface. If the product is applied to the inside of the greenhouse, the greenhouse should be empty. *Note: do not use on coated glass and/or when growing crops that are sensitive to fluorine, such as bulb and tuber crops. In case of hardened glass, first test a small surface on both sides and check the clarity before treating the entire greenhouse.*
Weather conditions	Temperature needs to be above 5 degrees Celsius. Do not use GS-4 during sunny weather, as the product will dry too fast and damage the glass.
Dilution	Mix the product with clean water and apply uniformly on the glass with suitable spray equipment. Allow to react for a while, but do not let it dry on the glass (pay attention when the weather is warm) to prevent damaging the glass. Next, within 5 minutes -depending on drying speed- thoroughly rinse the glass with clean water. After use, flush the equipment with water. A total of 2,000 liters of spraying liquid per hectare is recommended for the machine application of the product. The amount of GS-4 liters is dependent on the degree of contamination as indicated in the table below.

	MIXING RATIO	USE PER HECTARE (10.000 M²)
Light contamination	5%	100 liters GS-4 + 1,900 liters water
Heavy contamination	10%	200 liters GS-4 + 1,800 liters water

Personal protection	Product contains ammonium bifluoride which is toxic and corrosive. Avoid eye and skin contact by wearing chemical resistant gloves, safety glasses and protective clothing.
Equipment	Application should be done by spraying the liquid on the surface: • By machine • By hand with a spray gun

Environment

Environmental precautions	• Dispose in a safe manner in accordance with local/national regulations. Prevent entry to sewers and public waters. • The active components of GS-4 are neutralized within soil as a result of which no active substances remain after use. • We recommend to not let the rinse water flow into the water reservoir. • In case of contact with skin or eyes, rinse with water. If swallowed, consult a physician.

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