



KOBE 1.2 SL™

Contains: *Rheum officinale* Baill Plant Extract

Kobe 1.2 SL™ is a highly bio-active plant-derived bio-pesticide newly developed by ONZE LIVRE BV of the Netherlands.

The key active ingredients in Kobe 1.2 SL™ are natural substances extracted by a unique extraction process from the herbal plant *Rheum officinale* Baill and a patent protected isolation method from the roots of the plant *Rumex crispus*.

Kobe 1.2 SL™ inhibits the metabolism of fungi cells and thereby prevents the growth of the mycelia (fungal cells) on the subsurface of the plant. Kobe 1.2 SL™ also limits the growth of conidia (mitospores).

Kobe 1.2 SL™ provides excellent and effective protection against powdery mildew, gray mold and various other diseases on a wide range of crops; among them vegetables, ornamentals, and cereals. It also offers a reliable solution against downy mildew, alternaria, and anthracnose.

As a low toxicity product to humans and livestock, it is friendly to the environment and can be used in vegetable production. It is recommended to use Kobe 1.2 SL™ before or upon the first sign of infection of Powdery Mildew.

Mode of action

Kobe 1.2 SL™ has a unique fold mode of actions. Kobe 1.2 SL™ activates the plant's immunity by eliciting the Systemic Acquired Resistance (SAR) of the attacked plant and by inducing systemic resistance mode of action, which

causes plants to arm their own defense systems against attacking pathogens. One of the more effective resistance self immunity mechanism is manipulating the plant to regenerate phytoalexins that prevent spores and fungus from penetrating the plant.

Crops treated with Kobe 1.2 SL™ produce and accumulate high ratio of self generated proteins, phytoalexins and other compounds known to inhibit fungal and bacterial diseases and effectively stop the disease or infection from migrating to neighboring cells.

When a crop is treated with Kobe 1.2 SL™, its natural defence system is "activated" to protect itself against attacking diseases.

KOBE 1.2 SL™ was also found to inhibit sporulation by biosynthesis of existing hostile cells. It has good preventative, moderate curative and eradicated action due to the rapid translocation of *Rheum officinale* Baill plant extract in the plant

KOBE 1.2 SL™ also works as an eradicator by fencing fungal haustoria, which are cut off from their nutrient supply and therefore die. The key active ingredients of KOBE 1.2 SL™, *Rheum officinale* Baill, can be produced from various plants as well as several fungi's among them *Aspergillus* spp. and *Penicillium* spp. Both are known to have anti-tumor activity, strong antioxidant activity and anti-mutagenic activity.

KOBE 1.2 SL Characteristics

- A new botanical extract with a unique mode of action.
- Attacks the fungi at different target sites in their metabolic pathways.
- Low MRL (Maximum Residue Level) index.
- Highly effective against powdery mildew as well as downy mildew, gray mold, and anthracnose.
- Compatible with other pesticides.
- Unique mode of action as a translaminar acquired resistance elicitor and a low cross resistance with other types of fungicides.
- Observed to be safe to *Phytoseiulus persimilis*, honey bees, livestock, and the environment.
- An excellent IPM program compliance product.
- OMRI listed for use in Organic Agriculture

Known Toxicological profile

	Acute oral toxicity to rat (LD ₅₀ mg/ka)	Acute dermal toxicity to rabbit (LD ₅₀ mg/ka)
Technical active ingredient	>5000	>2000
KOBE 1.2 SL™	>5000	>2000

Rates of application:

Recommended general application rate: 100 ml per 50-60 L of water.

Crop	Target Diseases	Application Rate	Remarks
Roses and Vegetables	Powdery mildew	1.5 – 2 liter in 1000 litres of water	The higher rate should be used in case of actual presence of powdery mildew in the yield
	Gray mold and downy mildew	2.0 liter in 1000 litres of water	

The rates given are reference rates only. When using the product always test a small area first before commencing commercial use.

Application

Apply evenly and thoroughly prior to the appearance of diseases or when a disease first appears. Repeat at 10 day intervals as necessary.

User Precautions

- KOBE 1.2 SL™ is a protective bio-pesticide. It is preferably applied prior to the appearance of the disease or upon the first symptoms. Good control of the disease is less effective when applied at a later stage.
- KOBE 1.2 SL™ is non-systemic. Even and thoroughly spraying is necessary to obtain the anticipated protective effects.
- KOBE 1.2 SL™ residual activity lasts approximately 10 days. Repeated applications are required to protect crops from disease infection during the entire growing season.
- Eventhough KOBE 1.2 SL™ is of low toxicity to humans and livestock, applicators and other handlers must take protective measures when they apply the fungicide as stipulated in the requirements of pesticides regulations.
- Store unused product in original containers only, in cool, dry area, out of reach of children and animals. Do not contaminate water, food, and feed by storage and disposal.





About Onze Livre BV

At the heart of ONZE LIVRE BV is our core believe in investing in the future through improved food quality and safety. To achieve this a sustainable agricultural development is necessary by saving natural resources from decay and genetic variety.

Onze Livre BV is all about supporting the farmers, contributing to a healthy environment by providing effective and sustainable products. We apply strict quality parameters to ensure sound and wholesome working surroundings, while simultaneously invest, develop and market environmental friendly agricultural solutions enabling the production of healthy food which meet the demands and requirements of most rigerous markets.

ONZE LIVRE BV has gained the trust of the horticultural and agricultural producers from Holland and other countries, and advises public and private forums.

International Presence

ONZE LIVRE BV's main activity is focussed on Europe, Mediterranean, Middle East and Africa. We are operating today already in ten countries and more countries are becoming aware of ONZE LIVRE BV's high quality products as well as of our indepth knowledge regarding the application of minimum residue crop protocols. The growing international demand is encouraging us to increase our presence in export markets, which is currently our largest area of expansion.

ONZE LIVRE BV's effort in meeting the growers needs in countries where we operate is constantly increasing. We take special care in training local technicians, carrying out specific studies adapted to geographic conditions, improving local product distribution networks, and more. Our work philosophy, knowledge and experience are demonstrated and present in major international events worldwide.

Disclaimer

This information and all further technical advice is based on our present knowledge and experience and approvals from the registration authorities. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. In the event of any discrepancies between the information stated herein or any other information source and the information stated on the label of the product, the information stated on the label of the product will prevail. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of the customer. Reference to trade names use by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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