

HELIOPOLIS®

Physical barrier



**PINE TERPENES
TECHNOLOGY** 

CHARACTERISTICS

A genuine reflex solution in the event of thermic stress, HELIOPOLIS® is a liquid physical barrier formulated with a unique combination of terpenes: pine terpenes and beta-carotene. When HELIOPOLIS® is applied to the plant surface, a protective barrier is formed, composed in particular of beta-carotenes, excellent UV absorbers. It strengthens the protection against sunburn and scald, limits evapotranspiration and fruit/pods shattering.

Advantages of **HELIOPOLIS®** :

- Strengthens the protection against sunburn
- Reduces fruit bursting
- Limits evapotranspiration
- Does not mark the fruit

PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear, light yellow liquid

Odour : Pine

pH at 20°C : 7 (at 0.5% dilution)

Solubility in water : Emulsifiable

Density : 0.9445 g/cm³

DSM-FIRMENICH CONFIDENTIAL - The information contained in this document is confidential. Unauthorized disclosure is not allowed.

ADVICE FOR USE AND APPLICATION

FOR PROFESSIONAL USE ONLY

PREPARATION OF THE SPRAY MIXTURE

Shake the preparation well before use. **Pour the required amount of HELIOPOLIS® first into the tank.** Then finish filling the tank with water to the required volume while maintaining agitation. Maintain agitation during the entire application and during transport.

SPRAYER CLEANING AND TANK BOTTOM MANAGEMENT

At the end of each application of the product, the entire apparatus (tank, oar, circuit, nozzles, etc.) must be rinsed with clean water. The rinsing of the sprayer, the spreading or emptying of the tank bottom and the disposal of effluents must be carried out in accordance with the regulations in force.

DISPOSAL OF THE PRODUCT AND PACKAGING

When using the product, empty and rinse the can well with clear water (manual rinsing 3 times by shaking the can filled to 1/3 or mechanical rinsing for a minimum of 1 minute), while ensuring that the rinsing water is poured into the sprayer tank. Take the opened, rinsed and drained packaging to your ADIVALOR partner distributor or to another company authorised to dispose of hazardous waste. For the disposal of unused products, keep the product in its original packaging. Ask your distributor partner of ADIVALOR or call upon a company authorized for the collection and the elimination of the dangerous waste.

COMPATIBILITY

HELIOPOLIS® is compatible with most plant protection products. When using several products in the spray tank, interactions may occur. Therefore, compatibility testing is recommended. Read the label of the partner product carefully before mixing with HELIOPOLIS®. **Pour the required amount of HELIOPOLIS® first into the tank.**

SAFETY ADVICE AND STORAGE

OPERATOR AND WORKER PROTECTION

The use of suitable and well-maintained equipment and the implementation of collective protection are the first preventive measure against occupational risks, before the implementation of individual protection.

The wearing of dedicated work overalls or PPE must be associated with hygiene practices (e.g. hand washing, showering at the end of treatment) and disciplined behaviour (e.g. dressing/undressing procedures).

Cleaning and storage of work overalls and reusable PPE must be in accordance with their instructions for use.

STORAGE

It is recommended to store the product at a temperature between 1°C and 34°C, preferably in a cool place and to avoid direct sunlight.

STORAGE PERIOD

Once stored, HELIOPOLIS® can be used for a period of 24 months from the date of production.

DSM-FIRMENICH CONFIDENTIAL - The information contained in this document is confidential. Unauthorized disclosure is not allowed.

SAFETY INSTRUCTIONS

**WARNING**

EUH401 Follow instructions for use to avoid risks to humans and the environment. H315 causes skin irritation. Wear protective gloves / protective clothing / eye / face protection. IN CASE OF SKIN CONTACT : wash with plenty of water and soap. In case of skin irritation : consult a physician. Dispose of contents/container through a licensed waste collector or organisation. Do not contaminate water with the product or its packaging. Do not clean application equipment near surface water. Avoid contamination via drainage systems of farmyards or roads. To protect aquatic organisms, maintain a 5-metre restricted-entry zone to water sources or wider if the conditions of use of the associated preparation require a wider restricted-entry zone. REUSE OF PACKAGING IS PROHIBITED.

IN CASE OF AN EMERGENCY: CALL 15 OR 112 OR CONTACT THE NEAREST POISON CONTROL CENTRE.

Safety data sheet available on www.quickfds.com

USAGE TABLE

CROPS	TARGET	RATE	MAX NUMBER APPLICATIONS/SEASON
Potato	Evapotranspiration	2l/ha	5
Sugar beet	Evapotranspiration	2l/ha	4
Sunflower	Evapotranspiration	2l/ha	2
Cereals	Evapotranspiration (Scalding, grain filling)	2l/ha	2
Corn	Evapotranspiration	2 l/ha	2
Rape	Pods bursting	1l/ha	4
Legume crops (Soyabean, protein peas...)	Evapotranspiration	2l/ha	1
Vegetables (Tomato, Pepper, cucurbits, sweet corn...)	Evapotranspiration Sunburn	2l/ha	4 (For all applications combined)
Root and tuber vegetables	Evapotranspiration	2l/ha	5
Bulb vegetables (onion, shallots, garlic ...)	Evapotranspiration	2l/ha	3
Brassica vegetables	Evapotranspiration	2l/ha	3
Leaf vegetables	Evapotranspiration	2l/ha	3
Legume vegetables and pulses	Evapotranspiration	2l/ha	3
Pome fruits (Apple, pear...)	Evapotranspiration and fruit bursting Sunburn	2l/ha	4 (For all applications combined)
Stone fruits (Peach, apricots, cherry, plum...)	Evapotranspiration Sunburn and fruit bursting	2l/ha	4 (For all applications combined)
Small fruits, bushes and berries	Evapotranspiration and fruit bursting Sunburn	2l/ha	4 (For all applications combined)
Tree nuts	Evapotranspiration Sunburn	2l/ha	4 (For all applications combined)
Citrus fruits	Evapotranspiration Sunburn	2l/ha	4 (For all applications combined)

DSM-FIRMENICH CONFIDENTIAL - The information contained in this document is confidential. Unauthorized disclosure is not allowed.

Olive	Evapotranspiration Sunburn	2l/ha	4 (For all applications combined)
Tropical fruits (banana, mango, kaki...)	Evapotranspiration Sunburn	2l/ha	4 (For all applications combined)
Grapes	Evapotranspiration Sunburn	2l/ha**	4 (For all applications combined)

**4 applications at 2 l/ha with 14 days interval between applications
Minimum re-entry interval: wait for the spray mix completely dried

COMPOSITION

Contains a mixture of terpene derivatives (pine terpenes and beta-carotene).

PACKAGING AND LOGISTICS DATA



CAN
OF 10L



This pictogram indicates that the packaging of this product can be collected by the distributors partners of the ADIVALOR

DSM-FIRMENICH CONFIDENTIAL - The information contained in this document is confidential. Unauthorized disclosure is not allowed.



ACTION PIN
Z.I. de Cazalieu - CS 60030 - 40260 CASTETS
Tél : +33 (0)5 58 55 07 00
www.action-pin.fr - actionpin@action-pin.fr

