

2022-0975  
2022-03-04

Container Label

GROUP	<b>2</b>	HERBICIDE
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DUET™

Water-Dispersible Granular Herbicide  
in water-soluble bags

AGRICULTURAL

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND  
PEACE RIVER REGION OF BRITISH COLUMBIA ONLY

ACTIVE INGREDIENTS: Imazamox..... 35% a.e.  
Imazethapyr..... 35% a.e.

Warning, contains the allergen sulfites

CAUTION – SKIN IRRITANT

REGISTRATION NO. 32659                      PEST CONTROL PRODUCTS ACT

NET CONTENTS: 692 g (8 x 86.5 g water-soluble bags)

IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-800-454-2673

DO NOT SELL INDIVIDUAL WATER-SOLUBLE BAGS SEPARATELY

READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

Manufactured by:  
BASF Canada Inc.  
5025 Creekbank Road  
Building A, 2<sup>nd</sup> Floor  
Mississauga, Ontario L4W 0B6

1-877-371-2273

Distributed by:  
Loveland Products Canada Inc.

789 Donnybrook Drive  
Dorchester, ON N0L 1G5  
1-800-328-4678

2022-0975  
2022-03-04

DUET is a trademark of Loveland Products Canada Inc.

## PRECAUTIONS

### KEEP OUT OF REACH OF CHILDREN.

Skin irritant.

Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking or going to the washroom. Take a shower immediately after work.

Wear a long-sleeved shirt and long pants during mixing/loading, application, clean-up and repair. In addition, wear chemical resistant gloves during mixing and loading.

If clothing becomes contaminated, remove immediately and wash. Store and wash all protecting clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.

When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 12 hours after application.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

## FIRST AID

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

2022-0975  
2022-03-04

## **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

## **ENVIRONMENTAL HAZARDS**

TOXIC to non-target terrestrial and aquatic plants. Observe buffer zones specified under Directions for Use.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

## **DISPOSAL**

1. When all the water-soluble bags are used, make the empty outer package unsuitable for further use.
2. Dispose of the outer package in accordance with provincial requirements.
3. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **STORAGE**

Store above 5°C.

Store in a cool, dry place away from children, animals, food, feed or fertilizers. Keep unused water-soluble bags in resealed original container. Keep packages dry at all times. Keep packages out of rain. Keep from freezing.

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Last Approved Label under NOT Sub. No. 2018-6253 (2018-12-18)  
Removal of CL Canola and CL Brassica juncea

Booklet

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## **STORAGE**

Store above 5°C.

Store in a cool, dry place away from children, animals, food, feed or fertilizers. Keep unused water-soluble bags in resealed original container. Keep packages dry at all times. Keep packages out of rain. Keep from freezing.

## **NOTICE TO USER**

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2022-0975  
2022-03-04

**For Field Peas, Fenugreek (for seed uses and forage production only), Clearfield Lentils<sup>1</sup> (lentil varieties with the Clearfield trait), Clearfield Sunflowers<sup>1</sup> (sunflower varieties with the Clearfield trait), Soybeans (Western Canada only), Faba beans, and Seedling and Established Alfalfa, Seedling Clover (Red, Alsike and Sweet) and Bird's Foot Trefoil Grown for Seed Production**

## **ENVIRONMENTAL HAZARDS**

TOXIC to non-target terrestrial and aquatic plants. Observe buffer zones specified under Directions for Use.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.

Avoid application of this product when heavy rain is in the forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

## **DIRECTIONS FOR USE (Prairie Provinces and Peace River Region of British Columbia)**

DUET is a selective herbicide that can be applied as an early post-emergence treatment in field peas, fenugreek (for seed uses only), **Clearfield** Lentils<sup>1</sup>, **Clearfield** Sunflowers<sup>1</sup> (sunflower varieties with the **Clearfield** trait), soybeans, faba beans, and seedling and established alfalfa, seedling clover (red, alsike and sweet) and bird's foot trefoil grown for seed production. When DUET is applied early post-emergence, absorption may occur through both the roots and foliage. Susceptible weeds stop growing and eventually die.

Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.

### **Field Sprayer Application**

**DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

### Buffer Zones

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of:	
		Freshwater Habitat	Terrestrial Habitat
Field sprayer	All crops	1	1

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray drift buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides and Pest Management portion of the Health Canada website.

Pre-harvest Interval: After 60 days, field peas, fenugreek (for seed uses and forage production only), sunflowers, lentils, and faba beans can be harvested. After 85 days, soybeans can be harvested. DUET must not be applied within 60 days of harvest of bird's foot trefoil.

Rainfastness Interval: DUET is rainfast 3 hours after application.

DO NOT graze treated soybeans or cut for hay; sufficient data are not available to support such uses.

Field peas treated with DUET may be fed to livestock 30 days after application.

Do not harvest forage or cut hay for forage.

Do not graze treated bird's foot trefoil or cut for hay. Do not use refuse or hay from treated bird's foot trefoil for animal feed or forage.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

APPLY DUET in a water volume of 50-100 L/ha using ground equipment only.

Do not apply more than once per year.

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### **For Field Peas**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha). Application to field peas should be from 1-6 true leaf stage and after weeds have emerged. Apply when broadleaf weeds are from the cotyledon to 4 leaf stage and when grassy weeds are at the 1 - 4 true leaf or early tillering. Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.

### **For Fenugreek (for seed uses only)**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha). Application to fenugreek should be from the 1 to 4 leaf stage and after weeds have emerged. Apply when grassy and broadleaf weeds are at the 1-4 true leaf stage.

#### **NOTE TO USER**

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than BASF Canada and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. BASF Canada itself makes no representation or warranty with respect to performance (efficacy) and crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerances arising, and agree to hold BASF Canada harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

#### **FOR FENUGREEK (Forage production)**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha). Application to fenugreek should be from the 1 to 4 leaf stage and after weeds have emerged. Apply when grassy and broadleaf weeds are at the 1-4 true leaf stage.

Fenugreek forage is to be used for animal feed purposes only.

DUET must not be applied within 60 days of harvest of fenugreek for forage production.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Apply in 50-100 L/ha of water with MERGE Adjuvant at a rate of 0.5% v/v.

### **For Clearfield Lentils<sup>1</sup> (lentil varieties with the Clearfield trait)**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha). Application to **Clearfield Lentils<sup>1</sup>** should be from 1-9 node stage and after weeds have emerged. Apply when grassy and broadleaf weeds are at the 1-4 true leaf stage. Grassy weeds can be treated up to early tillering provided they are not beyond the 4 true leaf stage.

### **For Clearfield Sunflowers<sup>1</sup> (sunflower varieties with the Clearfield trait)**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha).

Application should be made from the 2 to 8 leaf stage of the sunflower crop and after the weeds have emerged. Grassy and broadleaf weeds should be at the 1-4 true leaf stage. Grassy weeds can be treated up to early tillering provided they are not beyond the 4 true leaf stage.

DUET should only be used on Clearfield Sunflowers<sup>1</sup> where production is not destined for export.

Initial transient crop yellowing may be observed after application but this is outgrown and should not affect yield.

### **For Soybeans**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha). Application to soybeans should be from the 1-3 true leaf stage and after weeds have emerged. Apply when broadleaf weeds are from the cotyledon to 4-leaf stage and when grassy weeds are at the 1-4 true leaf or early tillering.

### **For Seedling and Established Alfalfa Grown for Seed**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha). Apply by ground up to the 4-leaf stage of actively growing weeds; apply at the 1 to 4 leaf stage of alfalfa.

### **For Seedling Clover (red, alsike and sweet) Grown for Seed Production**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha) to seedling clover (red, alsike and sweet). Apply by ground up to the 4-leaf stage of actively growing weeds; apply at the 1 to 4 leaf stage of seedling clover.

Injury to clover (red, alsike, and sweet) in the form of discoloration and stunting may be observed shortly after application. However, this injury is typically outgrown and should not affect seed yield under appropriate field management.

For seed production only. Harvested crop not to be fed to livestock.

2022-0975  
2022-03-04

### **For Bird's Foot Trefoil (for seed production)**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha). Apply by ground up to the 4-leaf stage of actively growing weeds; apply at the 1 to 4 leaf stage of bird's foot trefoil.

Early crop injury to bird's foot trefoil may be observed but this is outgrown and should not affect seed yield under appropriate field management.

#### **NOTE TO USER**

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Accordingly, the Buyer and User assume all risks related to performance and crop tolerances arising, and agree to hold BASF Canada harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

#### **FOR FABA BEANS**

Apply DUET as a single post-emergent application at 30 g a.e./ha (43 g product/ha) for control of labeled weeds. Application to faba beans should be from the 1 to 6 leaf stage and after weeds have emerged. Apply when grassy and broadleaf weeds are at the 1-4 true leaf stage.

APPLY DUET in a water volume of 50-100 L/ha with MERGE® Adjuvant at a rate of 0.5% v/v.

Yellow flash or chlorosis may occur after application. The crop should be sprayed when actively growing and not under stress. Application should not be made to crops that are behind normal stage of development or whose maturity puts them at risk for fall frost.

DUET must not be applied within 60 days of harvest of faba beans.

Make only 1 application of DUET per year.

DUET at 29 g/ha (20 g a.e./ha) will control only:	
Redroot pigweed Volunteer tame mustard Wild mustard	
DUET at 43 g/ha (30 g a.e./ha) will control:	
Chickweed	Barnyard grass
Cleavers	Green foxtail
Flixweed	Persian darnel
Green smartweed	Volunteer barley
Hemp-nettle*	Volunteer tame oats
Kochia**	Volunteer wheat
Lamb's-quarters***	Wild oats
Redroot pigweed	
Russian thistle****	
Shepherd's purse	
Stinkweed	
Stork's bill	
Volunteer canola (non- <b>Clearfield</b> canola only)	
Volunteer tame mustard	
Wild buckwheat*	
Wild mustard	

- \* = suppression in field peas and **Clearfield** Lentils<sup>1</sup>
- \*\* = not controlled in **Clearfield** Lentils<sup>1</sup>; suppression in field peas and **Clearfield** Sunflowers<sup>1</sup>
- \*\*\* = suppression in field peas, **Clearfield** Lentils<sup>1</sup> and **Clearfield** Sunflowers<sup>1</sup>
- \*\*\*\* = suppression in **Clearfield** Lentils<sup>1</sup>



DUET at 43 g/ha (30 g a.e./ha) + POAST® ULTRA Liquid Emulsifiable Herbicide at 0.32 to 0.47 L/ha (for use only in field peas, <b>Clearfield</b> Lentils <sup>1</sup> [lentil varieties with the <b>Clearfield</b> trait] and soybeans)	
In addition to the control of weeds as listed on the DUET label, this tank-mix combination controls:	Apply POAST ULTRA Liquid Emulsifiable Herbicide at the 0.47 L/ha rate for suppression of quack grass or when weed densities are high and overlapping, when staging is late, or when weeds are under stress and not growing as actively due to moisture stress or temperature stress.
Crabgrass (large) Fall panicum Green foxtail* (including Group 1 and 2 resistant) Proso millet Quack grass (suppression, 2 to 5 leaf) Volunteer corn Volunteer wheat (including <b>Clearfield</b> ) Wild millet Wild oats* (including Group 1 and 2 resistant) Witchgrass Yellow foxtail	Application to field peas, <b>Clearfield</b> Lentils <sup>1</sup> [lentil varieties with the <b>Clearfield</b> trait] and soybeans should be after weeds have emerged and from the 1-6 true leaf stage for field peas; 1-9 node stage for <b>Clearfield</b> Lentils <sup>1</sup> ; and 1-3 true leaf stage of soybeans. Apply to broadleaf weeds from the cotyledon to 4-leaf stage and to grassy weeds from 1-6 true leaf or up to 2 tillers. Refer to the POAST ULTRA Liquid Emulsifiable Herbicide label for additional recommendations, precautions and restrictions not specified on this label.

\* The tank mix of DUET + POAST ULTRA Liquid Emulsifiable Herbicide will not control weed biotypes that are multiple-resistant to both Group 1 and Group 2 Herbicides.

Apply in 50-100 L/ha of water with MERGE Adjuvant alone at a rate of 0.5% v/v or MSO Concentrate at 1% v/v.

When tank mixing DUET with POAST ULTRA Liquid Emulsifiable Herbicide, apply in 50-100 L/ha of water with MERGE Adjuvant at a rate of 0.5% v/v.

**For 1000 L of spray solution**

USE:	SURFACTANT (L)	+ FERTILIZER (L)
MERGE	5.0	No fertilizer required
MSO Concentrate	10.0	No fertilizer required

## MIXING INSTRUCTIONS

Use 50-100 L/ha of water. Use a 50-mesh (or coarser) filter screen. Fill the spray tank with three-quarters of the required amount of clean water, start agitation and continue agitation throughout the entire mixing and spraying procedure. Add the required amount of DUET soluble bag(s) directly into the sprayer through the tank opening. Agitate for at least ten minutes to dissolve the herbicide. After the herbicide is dissolved, continue agitation and add the required amount of MERGE Adjuvant or MSO Concentrate. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT). Complete filling the tank to the desired level with water. If agitation is stopped for more than 5 minutes, re-suspend spray solution by full agitation prior to commencing spraying again. Between loads of DUET, check in-line and nozzle screens and rinse and clean if necessary. Upon completion of spraying DUET, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

## TANKMIXING INSTRUCTIONS

Use 50-100 L/ha of water. Use a 50-mesh (or coarser) filter screen. Fill the spray tank three-quarters full with water. Add the required amount of DUET soluble bag(s) directly into the sprayer through the tank opening. Agitate for at least ten minutes to dissolve the herbicide. After the herbicide is dissolved, use a separate calibrated measuring device to add the required amount of POAST ULTRA Liquid Emulsifiable Herbicide while agitating the spray solution. Continue agitation while adding the required amount of MERGE Adjuvant or MSO Concentrate. If excess foaming occurs, a silicone anti-foaming agent may be added (e.g. HALT). Complete filling the tank to the desired level with water. If agitation is stopped for more than 5 minutes, re-suspend spray solution by full agitation prior to commencing spraying again. Between loads of DUET, check in-line and nozzle screens and rinse and clean if necessary. Upon completion of spraying DUET, thoroughly flush tank, boom, hoses and in-line and nozzle screens with clean water to avoid possible injury to other crops.

## ROTATIONAL CROPS

There is the possibility of residual soil activity for DUET the year following application.

Research studies have shown that the following crops may be safely planted the year following DUET application:

Field corn  
Field peas  
**Clearfield** Canola<sup>1</sup> (canola varieties with the **Clearfield** trait)  
**Clearfield** Lentils<sup>1</sup> (lentil varieties with the **Clearfield** trait)  
Lentils  
Spring wheat  
Durum wheat  
Tame oats  
Canary seed  
Spring barley  
Chickpeas

Research studies have shown that flax, canola and sunflower may be safely planted **2 years** following DUET application in all regions of Western Canada except the Peace River Region of Alberta and British Columbia. In the Peace River Region, observe a minimum 34 months recropping interval for non-**Clearfield** canola, flax and non-**Clearfield** sunflower, and perform a field bio-assay the year prior to planting to confirm normal growth of the crops. If the crops show signs of injury, delay planting by an additional year and perform an additional field bio-assay the following year.

**WARNING:** Certain environmental conditions may delay the breakdown of herbicide residues in soil. These conditions include but are not limited to drought, extremes in soil pH and excessive cold. Under these conditions, the level of phytotoxic herbicide residues present in the field the season following an application may result in an increased potential for injury to succeeding crops to occur. This potential for increased residues under these environmental conditions is not unique to any specific herbicide or herbicide group but is a property of those herbicides which persist in the soil and are dependent on soil microbial activity and other non-microbial processes (e.g. hydrolysis) to breakdown.

There are insufficient data for other follow crops. Conduct a field bioassay (a test strip grown to maturity) the year before growing any crop other than those listed above.

## **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, DUET is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to DUET and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of DUET or other Group 2 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is

suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact BASF at 1-877-371-2273.

**Clearfield** is a registered trademark of BASF Agrochemical Products B.V. and **POAST** is a registered trademark of BASF SE, all used with permission by BASF Canada Inc.

MERGE is a registered trademark of BASF Canada Inc.

® All other products listed are registered trademarks of their respective companies.

<sup>1</sup> *Methods of growing plants which are resistant to certain acetohydroxyacid synthase (AHAS) herbicides are protected by Canadian Patent No. 1341465. Other applicable patents include Canadian Patent Application No. 2447445. The use of this product in the practice of patented methods could constitute patent infringement. Further information can be obtained by contacting BASF Canada at 1-877-371-2273.*

Last Approved Label under NOT Sub. No. 2018-6253 (2018-12-18)  
Removal of CL Canola and CL Brassica juncea

Pouch Label

DUET

NET CONTENTS: 86.5 g

ACTIVE INGREDIENTS: Imazamox - 35% a.e.  
Imazethapyr - 35% a.e.

Warning, contains the allergen sulfites

CAUTION - SKIN IRRITANT

KEEP OUT OF REACH OF CHILDREN