



DOVE
ASSOCIATES

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Information

INTRODUCTION

Leaf-Fall (now called Synthron EDTA Cu 9.1%) has been tested over the last years and has shown to promote defoliation on a wide-range of fruit and ornamentals. It contains the form of copper most effective as a defoliant. It penetrates leaf tissues and stimulates leaf abscission and therefore accelerates natural leaf fall.

SUGGESTIONS FOR USE

Concentration – use a standard concentration of 2 gallon per 100 gallons (20ml per litre) and add a low rate of a non-ionic wetter (such as Agral at 500ml/1,000lts) as recommended by the manufacturer. Increased concentrations of LEAF-FALL or high rates of wetter are not recommended. Lower rates have been successful on sensitive subjects, especially when sprayed after the first leaves have fallen.

Volume – apply the number of gallons per acre that gives thorough wetting of all the leaves with the minimum of run-off. This will vary with plant density and unless specialised machinery is employed good cover is not likely to be achieved with beds of more than four rows. Best results will be obtained using an air-assisted sprayer calibrated to give fine droplets.

Timing – spray when natural leaf fall is imminent, between late September and late October. This will vary with plant species, geographical location and the season. A spell of cold weather increases sensitivity to defoliation.

- a) Cox, Queen Cox and Plum rootstocks are most sensitive and respond quickly to treatment in late September.
- b) The majority of types listed respond well but need spraying about two weeks later.
- c) Spartan, Idared and Bramley are difficult and may not defoliate completely for early lifting. However, normal shaking to remove soil from the roots usually removes most of the remaining leaves. Colt is slow to respond and Quince is most difficult to defoliate.

Copper masquolate is very soluble and its effect will be reduced if rain falls within 24 hours of application.

Use plant protection products safely. Always read the label and product information before use

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VARIETIES TESTED

APPLES

Bramley
Queen Cox
Crispin
Cox
Discovery
Egremont
Fortune
Gala
Gloster 69
Golden Delicious
Greensleeves
Grieve
Grenadier
Idared
Jonagold
Katy
Kent
Spartan

ORNAMENTALS

Acer compestre
Alnus cordata
Betula Spp
Crataegus monogyna
Fraxinus excelsior
John Downie
Platanus spp
Prunus avium
Prunus cistena
Prunus mycobello
Sorbus intermedia

ROSES

Trials are in progress, using 4 gallon LEAF-FALL in 100 gallons (40ml/litre) applied in early August, as this was effective on some varieties in previous experiments.

Grandpa Dixon
Pascali
Uncle Walter
Queen Elizabeth
Zephrine Drouhin
Felicia

PEARS

Conference
Comice

PLUMS

Czar
Opal
Victoria

CHERRIES

B. Napoleon
M. Bigarreau
Morello

GOOSEBERRIES

Careless
Leveller

RASPBERRIES

Works well on
some varieties

Acer pseudoplatanus
Alnus glutinosa
Carpinus betulus
Fagus purpurea
Hippophae rhamnoides
M. Aldenhamensis
Populus spp
Prunus avium plena
Prunus nigro
Quercus rubra
Tillia spp

ROOTSTOCKS

M9
M25
M26
MM106
Quince A + C
Pixy
St. Julien A
Colt

REDCURRANTS

Jonkheer V. Tets
Laxtons No 1.
Red Lake

BLACKCURRANTS

Baldwin
Ben Lomond
Blackdown
Jet
Tsema

Aesculus hippocastanum
Alnus incana
Cornus sanguinea
Fagus sylvatica
Hillieri
Malus spp
Prunus amanogowa
Prunus cerasifera
Prunus pissardi
Salix
Wintergold

Super Star
Peoce
Honeymoon
Mme Isaac Pereire
Maricold

Caution – plants that have been recently pruned should not be sprayed. Unhealed cuts allow excessive penetration of copper masquolate and localised bark damage can occur. Cuts from legging up in July – August are not at risk.

Synthron EDTA Cu 9.1% can be sourced from: Protex Chemicals Ltd, Howley Park Road East, Morley, Leeds LS27 0SW. Tel: 0113 238 3222. Fax: 0113 238 3111. Email: sales@protexchemicals.com.

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Safety Data Sheet dated 16/10/2001 version 0.0

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: MASQUOLATE CU L 900 N

Trade code: C6-16647

Company: SYNTHRON

6, rue Barbès F-92305 LEVALLOIS - PARIS

Tél. : (33)-01-41-34-14-00

Fax : (33)-01-41-34-14-16

Emergency phone number: (33)-02-47-29-60-37

Emergency telephone number of an authorised advisory centre:

ORFILA

Tel. : (33)-01-45-42-59-59

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Metallic complex of EDTA.

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

Copper complex of EDTA.

Xn Harmful

R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system.

3. HAZARDS IDENTIFICATION

Health risk:

Harmful if swallowed.

Irritating to eyes and respiratory system.

4. FIRST AID MEASURES

In case of inhalation:

Not applicable.

Take the victim out of the contaminated area. Make victim breath fresh air.

In case of splashes in eyes:

Rinse immediately with plenty of water for at least 15 minutes.

take the advice of an ophthalmologist.

In case of skin contact:

Take off immediately all contaminated or splattered clothing.

Wash with water.

In case of ingestion:

Make the victim rinse his mouth with water.

Should the patient feel unwell, obtain medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media recommended:

Sprayed water.

Powder.

Foam.

Carbonic snow.

Extinguishing media inadvisable:

None.

Special hazards:

None in normal conditions of use.

Hazardous decomposition/combustion products:

Aqueous solutions in contact with copper and aluminium emit hydrogen.

By pyrolysis: CO, CO₂, NO_x.

Special protective equipment:

Wear a self-contained breathing apparatus.

Other informations:

Avoid rejection of extinguishing water in the environment.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Wear a protective personal equipment. See, too, paragraph 8 below.

Environmental measures:

No particular risks in usual handling conditions.

Cleaning methods:

Recovery:

Absorb the product by inert material. Recover in a suitable container.

Cleaning/decontamination:

After the product has been recovered, rinse the area and materials involved with water.

Elimination:

Eliminate in accordance with the local and national regulations currently in force.

7. HANDLING AND STORAGE

Manipulation:

Technical measures:

Give adequate ventilation to the premises where the product is handled.

Precautions to take:

Avoid contact with skin and eyes.

Advices of use:

Respecte the conditions of use.

Storage:

technical measures:

Give adequate ventilation to the premises where the product is stoked.

Keep at room temperature.

Incompatible materials:

None in particular.

Recommanded packaging material:

Glass.

Varnished iron.

Polyethylene.

Plastic.

Packaging material to avoid:

Iron.

Aluminium.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

No special technical measures.

Give adequate ventilation to the premises where the product is handled/stoked.

Exposure limit(s):

None.

Protective personal equipment.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Protection for hands:

Suitable protective gloves.

Eye protection:

Safety goggles.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Color: Blue.
Odour: Light.
pH: 6.8
Melting point: < 0°C.
Boiling point: 100 ° C
Decomposition temperature: > 150°C.
Flash point: > 100°C
Autoignition temperature: >> 200 ° C
Explosive properties:
Not applicable.
Vapour pressure: 25hPa at 20°C.
Specific gravity: 1.35g/cm3 at 20°C
Solubility/Miscibility:
Solubility in water: Soluble.
Viscosity: < 100 mPasat 20°C

10. STABILITY AND REACTIVITY

Conditions to avoid:

None to our knowledge in usual handling conditions.

Substances to avoid:

The strong oxidizing agents.

Hazardous decomposition products:

None to our knowledge in usual handling conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

By ingestion: LD50=3000 mg/kg/rat.

Local effects:

On skin:

May cause irritations in case of prolonged contact with skin.

On eyes:

Moderately irritating to eyes.

Irritating to eyes.

12. ECOLOGICAL INFORMATION

Biodegradability:

Faintly biodegradable.

BOD5: 20 mgO2/g

COD: 500 mgO2/g

Ecotoxicity: Contains nitrogenous by-products.

AOX content: None.

WGK class: 2

13. DISPOSAL CONSIDERATIONS

Disposal methods for products and waste:

Send to authorised disposal plants or for incineration under controlled conditions.

Disposal methods for contaminated packaging:

Reusable after washing.

Send to authorised disposal plants or for incineration under controlled conditions.

Note : In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

Land transport (ADR/RID):

Not classified as dangerous in the meaning of land transport regulations (ADR/RID).

Shipping transport (IMD):

Not classified as dangerous in the meaning of shipping transport regulations (IMDG).

Air transport (IATA):

Not classified as dangerous in the meaning of air transport regulations (IATA).

15. REGULATORY INFORMATION

Classification and labelling in accordance with EEC directives (substances: 67/548/EEC and preparations: 88/379/EEC):

Symbols:

Xn Harmful

R Phrases:

R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system.

S Phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Contents:

Copper complex of EDTA.

16. OTHER INFORMATION

Uses: Fertilizer.

Custom situation:

Harmonised system (HS): 29.22.49

Combined nomenclature ECC (CN): 29.22.49.70

FDA : No.

BgVV: No.

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This safety data sheet compliments the technical data sheet but does not replace it. The information and recommendations given are based on the best information that wa have and are believed accurate and reliable at the date of publication. This safety data sheet should not be considered exhaustive and on no account does it exempt the user from ensuring that any propriety rights, existing laws and regulations are observed.

Moreover, the attention of the user is drawn to the risks that could possibly occur should a product be used for an application other than that for which it is intended.
