



TECHNICAL DATA SHEET
INCLUDING COSHH REGULATION INFORMATION

PRODUCT NAME: **STARCH DOCTOR POTATO REMEDY**

LEGISLATION COMPLIANCE: **89/107/EEC Annex IV**

INGREDIENTS: **Disodium Dihydrogen Diphosphate** CAS No **7758-16-9** EINECS **231-835-0** E No. **450(a)**

PRODUCT DESCRIPTION: **Starch Doctor Potato Remedy is used to prevent after-cooking discolouration, commonly caused by frost damage through radically reducing sugar content.**

PRODUCT PACKAGING: **2.5 kg easy pour plastic container**

DIRECTIONS FOR USE: **For normal preserving treatment Starch Doctor should be combined with Drywite Liquid Formula No. 1 or Drywite Powder Formula No. 2.**

- 1. Chip** – Peel potatoes and chip BEFORE treatment.
- 2. Wash** – Rinse thoroughly in cold water.
- 3. Mix** - Using Drywite chip preparation vessel or other suitable approved food container, make up sufficient solution to ensure all potatoes/chips to be treated are submerged.

Solution Make-up

Follow instructions on Liquid Formula No. 1 or Powder Formula No. 2 to make up solution. Add Starch Doctor to the solution at the rate of 1g per litre. (1 heaped capful per 40L of solution) Stir well.

- 4. Soak** - Allow the chips to soak in the solution for 15 minutes. It is important that the product is not soaked for too long, extended soaking can cause a hard skin to develop.
- 5. Dry** - Take the Drywite treated chips out of the solution and leave to dry for at least 1 hour before frying. Always store Drywite treated chips OUT OF WATER for maximum benefits.
- 6. Fry** - If stored in cool (10°C) dry conditions, chips will remain dry, of good colour and ready to fry for at least 48 hours. Dry chips cook faster and absorb less fat, resulting in crispier, tastier product, which has cost less in fuel and fat to produce.

HOT WATER WASH FOR BADLY FROSTED POTATOES

Add 10 gms to each litre of hot water sufficient to cover quantity of potatoes to be washed. After washing in hot solution rinse with cold water before treating with Drywite in normal way.

BLANCHING

Add 10 gms to each litre of boiling water, blanch potatoes/chips for 2 minutes. Allow to cool and dry completely before freezing.

HAZARDS: **Not classified as dangerous according to Directive 67/548/EEC or its amendments**

RISK PHRASE(S):	None
SAFETY PHRASE(S):	None
GMO STATUS:	There are no genetically modified food substances contained in this product.
NUT INGREDIENTS:	There are no nut ingredients contained in this product.

FIRST AID MEASURES:

Eyes:	Wash well with clean water or eye bath solution for at least 15 minutes Seek medical attention
Skin:	Remove contaminated clothing and wash contaminated skin thoroughly with soap and water If any irritation develops seek medical advice Wash clothing before reuse
Inhalation:	Remove patient to fresh air, keep warm and at rest Administer oxygen if necessary Apply artificial respiration if breathing has ceased or shows signs of failing Apply external cardiac massage in event of cardiac arrest Seek medical attention
Ingestion:	Do not induce vomiting Wash mouth well with water and give water to drink Seek medical attention

FIRE FIGHTING MEASURES

Extinguishing media:	Carbon Dioxide, dry chemical powder, alcohol or polymer foam
Fire and explosion hazards:	Emits toxic fumes under fire conditions
Protective measures:	A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions

ACCIDENTAL RELEASE MEASURES (SPILLAGE FROM BULK STORAGE)

Personal precautions:	Avoid skin and eye contact Wear appropriate NIOSH/NSHA-approved respirator, chemical safety gloves, chemical safety goggles, rubber boots and other protective clothing
Environmental protection:	If large spillage does enter water courses or sewers, inform the appropriate local water authority
Recovery:	Avoid raising dust Sweep up, place in bag and hold for waste disposal Ventilate area and wash spill site after material pick-up is complete

HANDLING AND STORAGE (IN NORMAL USE)

Storage:	Keep container closed Store in cool, dry place away from acids and oxidising agents
Handling for bulk facility:	Avoid skin contact and inhalation Wear appropriate protective equipment No smoking, eating or drinking while handling Wash thoroughly after handling
Materials for equipment/packaging:	Store in stainless steel, plastic, glass or suitable lined mild steel containers Corrosive to mild steel.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:	10mg/m ³ (8HR TWA) total dust 5mg/m ³ (8HR TWA) respirable dust
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PERSONAL PROTECTIVE EQUIPMENT

Respiratory:	Wear appropriate respiratory protective equipment
Hands/Eyes/Other:	If exposure to levels above OEL is likely, wear suitable protective clothing, gloves and eye/face protection

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White free-running powder
Odour:	None
pH:	3.9 (1% solution)
Flash point:	Non flammable
Relative density:	1.85g/ml
Solubility:	Totally soluble in water
Thermal decomposition:	Loses water above 250°C to form a Sodium Metaphosphate
Viscosity:	N/A (dry powder)

STABILITY AND REACTIVITY

Stability:	Stable in all conditions
Conditions to avoid:	Avoid extremes of temperatures
Materials to avoid:	No hazardous reactions known
Hazardous decomposition products:	None

TOXICOLOGICAL INFORMATION**SHORT TERM**

Ingestion:	Harmful if swallowed
Skin:	May cause irritation
Eyes:	May cause irritation
Inhalation:	May cause irritation to respiratory system

LONG TERM

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated

ECOLOGICAL INFORMATION:

Slowly hydrolysed in water to form Orthophosphate which can act as a plant nutrient and precipitate heavy metals

DISPOSAL CONSIDERATIONS:

In accordance with local and national regulations.

TRANSPORT INFORMATION:

Packing group not covered by 1986 Regulations.

LABELLING FOR RETAIL SALE:

In accordance with CHIP 2 Regulation 1994
- no risk or safety phrases stipulated

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