



# SYSTIVA®

**A seed treatment fungicide for the control of various seed borne, soil borne and foliar diseases in wheat and barley.**

Contains 333 g/litre fluxapyroxad in the form of a suspension concentrate

## **WARNING**

**Keep out of reach of children**

**NET CONTENTS: 10 Litres**

**Registered to and distributed by:**  
**BASF New Zealand Limited**  
**P.O. Box 407, Auckland 1140**  
**Phone: 0800 932 273**  
**Fax: 0800 940 000**

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**FOR USE ONLY AS AN AGRICULTURAL SEED TREATMENT**

**READ LABEL COMPLETELY BEFORE OPENING OR USING**

## Hazard Classification

6.9B, 9.1B



### WARNING

**HARMFUL.** May cause liver damage through prolonged or repeated oral exposure at high doses. **TOXIC TO AQUATIC LIFE.** May cause long term adverse effects in the aquatic environment. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

### PRECAUTIONS

**HANDLING:** Read label before use.

**STORAGE:** Store in original container, tightly closed, in a dry, cool, well-ventilated place away from food and animal feeds. Keep away from heat and protect from direct sunlight. Stores containing 1000 litres or more of this product require emergency response plans and secondary containment systems, and are subject to signage.

**TRANSPORT:** Do NOT carry this product on a passenger service vehicle.

**SPILLAGE:** Prevent further spillage and product from entering waterways. Wear overalls, gloves, footwear and goggles. Absorb spill with an inert material such as a synthetic absorbent, shovel up and place in a labeled, sealable container for disposal. Wash the spill area with water and detergent, then absorb the washings and place in the same sealable container. Dispose of the waste safely in suitable landfill.

**PERSONAL PROTECTION:** When mixing and preparing the seed treatment slurry, wear cotton overalls buttoned to the neck and wrist, a washable hat, suitable gloves, and goggles or a face shield.

**GENERAL SAFETY AND HYGIENE MEASURES:** Avoid contact with skin, eyes and clothing. Do NOT eat, drink or smoke when using this product. Remove protective clothing and wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing immediately after use. Store work clothing separately.

**USE AND ENVIRONMENTAL PROTECTION:** DO NOT apply onto, into or over water. Apply with well-maintained and accurately calibrated seed treatment equipment. Clean out equipment thoroughly after use. DO NOT contaminate surface waters or ditches when disposing of equipment wash waters. Treated seed must be completely covered by soil when sown. Treated seed should not be left on the soil surface or in areas accessible to birds. Bury spillages. DO NOT apply treated seed from the air.

**NOTE:** Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

**DISPOSAL:** Container: Triple rinse empty container with a small amount of water and add rinsate to the seed treatment tank in accordance with the directions for use. Recycle the rinsed container through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Product: Dispose of this product only by using according to the label or at an approved landfill. Do NOT burn product. Do NOT contaminate any water supply with product or used container. Seeds treated with this substance must be disposed of in accordance with the disposal requirements for toxic and ecotoxic substances.

### FIRST AID

Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor. **IF ON SKIN OR CLOTHING:** Remove contaminated clothing and wash skin with plenty of soap and water. Do NOT scrub skin. **IF IN EYES:** Wash out immediately with water.

### CONDITIONS OF SUPPLY

Read conditions of supply before buying and using. If these conditions are unacceptable, return at once unopened. All goods supplied by BASF New Zealand Limited are of a high grade and conform to the chemical description of the label. However, to the extent permitted by law, neither BASF nor any of its Distributors accept any liability or responsibility whatsoever for any loss, damage or injury whether direct, indirect or consequential howsoever arising in connection with the supply of those goods including without limitation their storage, application, handling or use. BASF New Zealand Limited nor any of its Distributors, make no warranties of any kind, express or implied, with respect to fitness for purpose (including crop injury, ineffectiveness or any other unintended consequence), merchantable quality or any other matter with respect to these goods. When you are a consumer as defined in the Consumer Guarantees Act 1993 (the "Act") these conditions will be subject to the provisions of the Act. However the Act will not apply to goods supplied to you for business purposes.

Approved pursuant to the HSNO Act 1996, Code HSR100887.

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

Registered pursuant to the ACVM Act 1997, No. P8183.

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Date of Manufacture:

Batch Number:

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**EMERGENCY PHONELINK**  
24 Hour Advice in an Emergency Only  
**0800 944 955**

## GENERAL INFORMATION

SYSTIVA is a fungicide seed treatment with high specific activity and good residual activity against a broad range of seed borne, soil borne and foliar diseases in cereals.

## RESISTANCE MANAGEMENT

SYSTIVA contains fluxapyroxad, a carboxamide fungicide from the SDHI (Succinate Dehydrogenase inhibitors) mode of action group **GROUP 7 FUNGICIDE**. Resistance to this fungicide and related GROUP 7 fungicides could develop from excessive use. To minimise this risk use strictly in accordance with the label instructions and resistance management strategies that exist for any fungus listed on the label. Apply no more than two GROUP 7 fungicides per season to crops grown from seed treated with SYSTIVA. Refer to the NZCPR web site ([www.nzpps.org/resistance/index.php](http://www.nzpps.org/resistance/index.php)) for more detailed information.

## DIRECTIONS FOR USE

**IMPORTANT:** All instructions within this section must be read carefully in order to obtain safe and successful use of this product. SYSTIVA is a fungicide seed treatment for use in wheat and barley for the control of specified seed borne, soil borne and foliar diseases.

### Warnings / Restraints:

- Some slight delay in emergence may occur, but this will be outgrown with no lasting effects.
- Do NOT treat seed with a moisture content exceeding 16% and do not allow the moisture content of treated seed to exceed 16%.
- Do NOT apply SYSTIVA to cracked, split, sprouted or otherwise damaged seed.
- Do NOT transfer pumps from one treatment to another. When changing formulations, wash out the pump, pipeline and tank with clean water before use.
- Keep container closed when not in use.
- Bag the seed immediately after treating and store in a dry, draught free store.
- LABEL TREATED SEED with the appropriate precautions using printed sacks, labels or bag tags.
- Treated seed must not be fed to humans or animals.
- Check germination if treated seed is stored for more than one year.

### Disease Control:

Crop	Diseases Controlled
Barley	Covered smut, Loose smut, Leaf stripe, Leaf rust, Net blotch, Scald, Powdery mildew, Ramularia leaf and awn spot (suppression).
Wheat	Common bunt, Loose smut, Brown rust, Stem rust, Stripe rust, Powdery mildew.

### Rate of Use:

Apply 0.75 to 1.25 litres SYSTIVA per tonne of seed.

### Notes:

- Use lower rates if only seedling disease control is required (out to GS 23 mid-tillering)
- Use higher rates when cereal sowing rates are lowered (aiming for 45-50 gai/ha in ground (140-160 ml/ha on ground))
- Use higher rates when longer protection is required e.g. Leaf rust in autumn barley
- Use the higher rate for difficult to control pathogens such as Scald

**Mixing and Application:** Agitate the product before use. Mix the required amount of SYSTIVA with 5 to 10 litres of water and apply directly to one tonne of seed. Use clean, calibrated seed treatment machinery. Ensure thorough, even coverage of the seed. Continuous flow or batch treatment machinery may be used.

**Compatibility:** SYSTIVA can be applied sequentially or in conjunction with Kinto<sup>®</sup> Duo and imidacloprid or clothianidin based insecticide seed treatment formulations.

### Withholding Periods:

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards.**

All cereals including cereal silage: Do NOT graze or cut for feed for 42 days after sowing.

## Information to be provided with treated seed:

### TREATED SEED

THIS SEED HAS BEEN TREATED WITH SYSTIVA® (contains fluxapyroxad) at \_\_\_\_ litres/tonne seed.

DO NOT USE TREATED SEED FOR HUMAN OR ANIMAL CONSUMPTION.

KEEP TREATED SEED SECURE from people, domestic stock/pets and wildlife at all times during storage and use.

STORE TREATED SEED IN COOL, DRY CONDITIONS.

DO NOT STORE TREATED SEED FOR MORE THAN 18 MONTHS. Treated seed stored for periods in excess of 18 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 6 months should be tested for germination before planting. Leftover treated seed should not be stored where there is a chance of it becoming mixed with untreated seed.

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (COVERALLS, GLOVES AND A DUST MASK) when handling treated seed or contaminated surfaces during drilling operations.

DO NOT HANDLE treated seed unnecessarily.

WHEN HANDLING TREATED SEED DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

DO NOT APPLY TREATED SEED FROM THE AIR.

TREATED SEED MUST BE COMPLETELY COVERED BY SOIL WHEN SOWN.

EXCESS TREATED SEED MUST NOT BE LEFT IN AREAS ACCESSIBLE TO BIRDS.

BURY OR REMOVE SPILLAGES OF TREATED SEED.

CLEAN AUGER THOROUGHLY after handling treated seed before using same auger for handling commercial or feed grains.

DO NOT RE-USE SACKS OR CONTAINERS THAT HAVE BEEN USED FOR TREATED SEED for food or feed.

### WITHHOLDING PERIOD

All cereals including cereal silage: Do NOT graze or cut for feed for 42 days after sowing.

### RESISTANCE MANAGEMENT

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