

**CHINOOK COLOURLESS**Version 1 / GB
1020000077421/7
Revision Date: 07.06.2006
Print Date: 14.07.2008**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name CHINOOK COLOURLESS
Product code (UVP) 05509475
Usage insecticide
Company Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
Great Britain

Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Emergency telephone number 0800-220876 (UK 24 hr)
+44(0)1603-242424 (Overseas 24 hr)

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Flowable concentrate for seed treatment (FS)
Beta-Cyfluthrin 100 g/l + Imidacloprid 100 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
beta-Cyfluthrin	68359-37-5 269-855-7	T+, N	R26/28, R50/53	9.35
Imidacloprid	138261-41-3	Xn	R22, R52	9.35

3. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Harmful if swallowed.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES**General advice**

Move out of dangerous area. Place and transport victim in stable position (lying sideways).
Remove contaminated clothing immediately and dispose of safely.

Skin contact

Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or a simple body milk.

Eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical



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advice. Call a physician or poison control center immediately.

Ingestion

Do not induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

Notes to Physician

Symptoms

Systemic:; Usually transient with resolution within 24 hours.; excitement, gastrointestinal discomfort, tremors, dizziness, headache, nausea, vomiting, abdominal pain, muscular fasciculation, unconsciousness

Symptoms

Local:; skin and eye paraesthesia which may be severe

Risks

This product contains a pyrethroid.

Must NOT be confused with organophosphorus compounds!

Treatment

Systemic treatment:

Endotracheal intubation and gastric lavage, followed by administration of charcoal.

Monitoring of respiratory, cardiac and central nervous system.

ECG - monitoring (Electrocardiogram).

Early dialysis (h(a)emoperfusion)

Check for pulmonary oedema in event of inhalation.

Against convulsions: give diazepam. For adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.

There is no specific antidote.

Contraindication: atropine.

Adrenaline derivatives are contra-indicated.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

water spray

carbon dioxide (CO₂)

foam

sand

Specific hazards during fire fighting

In the event of fire the following can be released:

hydrogen chloride (HCl)

hydrogen cyanide (hydrocyanic acid)

hydrogen fluoride

carbon monoxide (CO)

nitrous gases (NO_x)

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

Use breathing apparatus.

Further information

Contain the spread of the fire-fighting media.

Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

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Avoid contact with spilled product or contaminated surfaces.
Wear personal protective equipment. Unprotected persons must be kept away.

Environmental Precautions

Do not discharge into the drains/surface water/groundwater.
If spillage enters drains leading to sewage works inform local water company immediately.
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

Methods for Cleaning Up

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).
Clean contaminated floors and objects thoroughly, observing environmental regulations.
Keep in suitable, closed containers for disposal.

Additional Advice

Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling
Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers
Keep container tightly closed in a dry and well-ventilated place.
Store in a place accessible by authorized persons only.
Store in original container.

Advice on common storage
Keep away from food, drink and animal feedingstuffs.

Storage stability
Storage temperature < 50 °C
Other data Do not store at temperature exceeding 50 °C.

Suitable materials
HDPE (high density polyethylene)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Personal protective equipment

Respiratory Protection No personal respiratory protective equipment normally required. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

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Hand Protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and Type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
Hygiene measures	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and at the end of workday. Remove soiled and/or soaked clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	suspension
Colour	white to beige
Odour	slight, specific odour

Safety data

Flash Point	> 100 °C
Density	ca. 1.07 g/cm ³ at 20 °C
Water Solubility	miscible
Viscosity, dynamic	400 - 600 mPa.s at 20 °C

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) 300 - 500 mg/kg
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Acute Inhalation Toxicity	LC50 (rat) > 1.505 mg/l Exposure time: 4 h (as aerosol) Highest attainable concentration.
Acute Dermal Toxicity	LD50 (rat) > 4,000 mg/kg
Skin Irritation	Non-irritant. (rabbit)
Eye Irritation	Non-irritant. (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 211 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0.000068 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient beta-cyfluthrin.
Toxicity to daphnia	EC0 (Water flea (<i>Daphnia magna</i>)) 85 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0.00029 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient beta-cyfluthrin.
Toxicity to algae	IC50 (<i>Pseudokirchneriella subcapitata</i>) > 100 mg/l Growth rate Exposure time: 72 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to algae	IC50 (<i>Desmodesmus subspicatus</i>) > 0.010 mg/l Growth rate Exposure time: 72 h The value mentioned relates to the active ingredient beta-cyfluthrin. No acute toxicity was observed at its limit of water solubility.

13. DISPOSAL CONSIDERATIONS**Product**

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

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Empty remaining contents.
Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.
Return large containers to supplier.
Follow advice on product label and/or leaflet.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-No	3352
Labels	6.1
Packaging group	III
Hazard no.	60
Description of the goods	UN 3352 PYRETHROID PESTICIDE, LIQUID, TOXIC (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION)

IMDG

UN-No	3352
Class	6.1
Packaging group	III
EmS	F-A , S-A
Marine pollutant	Marine pollutant
Description of the goods	PYRETHROID PESTICIDE, LIQUID, TOXIC (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION)

IATA

UN-No	3352
Class	6.1
Packaging group	III
Description of the goods	PYRETHROID PESTICIDE, LIQUID, TOXIC (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION)

UK 'Carriage' Regulations

UN-No	3352
Labels	6.1
Packaging group	III
Hazard no.	60
Emergency action code	2X
Description of the goods	UN 3352 PYRETHROID PESTICIDE, LIQUID, TOXIC (BETA-CYFLUTHRIN, IMIDACLOPRID SOLUTION)

15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Labelling according to EC Directives

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Hazardous components which must be listed on the label:

- beta-Cyfluthrin
- Imidacloprid

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R22	Harmful if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: II (Moderately hazardous)

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

R22	Harmful if swallowed.
R26/28	Very toxic by inhalation and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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