

Issue Date: 09/98	<b>HARLEQUIN 500 SC</b>	Ref#: CP 057/5
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## 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Names: HARLEQUIN 500 SC  
 Formulation number: A 8510 A  
 Supplier: Novartis Crop Protection UK Ltd  
 Whittlesford, Cambridge, CB2 4QT  
 TEL: (01223) 833 621 (24 hours)  
 FAX: (01223) 835211

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Formulation type: Suspension concentrate  
 Active ingredient: isoproturon + simazine  
 CAS number: see under  
 Active Ingredient content: see under  
 Hazardous components: see under

CAS#	Substance	Concentration	Symbol	R-Phase
34123-59-6	Isoproturon	41.7% w/w	X <sub>n</sub>	22-40, 50-53
122-34-9	Simazine	4.6% w/w	X <sub>n</sub>	40, 50-53

## 3 HAZARDS IDENTIFIED

Health hazards: Irritating to skin. Possible risk of irreversible effects.  
 Environmental hazards: Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 4 FIRST AID MEASURES

**General First Aid:** Remove the affected person from exposure to a well ventilated area and protect from excessive heat loss. In cases of suspected poisoning, immediately call a physician.

**Skin contact:** Remove contaminated clothing and thoroughly wash exposed areas with soap and water.

**Eye contact:** Rinse eyes with clean water for several minutes and immediately call a physician.

**Ingestion:** Repeatedly administer medicinal charcoal in a large quantity of water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

**Inhalation:** See 'General First Aid' above

**Antidote:** No specific antidote is known. Treatment should be symptomatic and supportive.

## 5 FIRE FIGHTING MEASURES

The preparation is non-flammable. In the presence of fire dangerous fumes may be given off. Protective clothing and breathing apparatus must be worn. Extinguishing media include powder, foam, carbon dioxide or water spray (do not use direct jet of water). Measures should be taken to prevent contaminated extinguishing media from seeping into ground, contaminating water courses or spreading uncontrollably.

## 6 ACCIDENTAL RELEASE MEASURES

Spillages should be cleared up immediately. Contain spillage with absorbent material such as sand. Sweep up and place in a labelled container for safe disposal. Spilled product cannot be used further and must be disposed of. Contact Local Authority (Environmental Health Department) or specialist disposal contractor or supplier for information safe disposal.

## 7 HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. Store the product in closed, original container in a cool well ventilated place. Protect from light and humidity. Store separately from food and feed. Keep out of reach of children. Do not re-use containers for any other purpose. Minimum storage temperature = -5°C.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards (OES's) – Isoproturon; 8 hr TWA 1.0mg/m<sup>3</sup>

Occupational Toxicity Risk – Low

General Purpose Protective Equipment (PPE) – Change working clothes daily.

PPE (Respiratory Protection) – In case of heavy exposure wear gas mask.

PPE (Hand Protection) – Gloves

PPE (Eye Protection) – Goggles or Face Shield.

PPE (Body Protection) – Heavy duty overalls. Heavy duty shoes or boots.

Precautionary measures after work – thoroughly clean contaminated equipment and protective gear. Wash thoroughly (shower, bathe, wash hair).

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Liquid
Flash Point:	>100°C
Flammability:	Non flammable
Density 20°C:	1.08
Solubility range in water:	Dispersible
Ph Value (1% suspension):	7.5
Dynamic viscosity 20°C:	600mPa.s

## 10 STABILITY AND REACTIVITY

Chemically stable under standard conditions.

No hazardous decomposition products when handled according to instructions.

Not sensitive to humidity.

## 11 TOXICOLOGICAL INFORMATION

Acute oral LD <sub>50</sub> rat:	>3900 mg/kg
Acute dermal LD <sub>50</sub> rat:	>3100 mg./kg
Acute skin irritation, rabbit:	Irritant
Acute eye irritation, rabbit:	Non-irritant.
Acute skin sensitisation, guinea pig:	Non-sensitising

## 12 ECOLOGICAL INFORMATION

<u>Toxicity</u>	<u>Isoproturon</u>	<u>Simazine</u>
Fish LC <sub>50</sub> , 96h		
Bluegill	>100 mg/l	90 mg/l
Carp	193 mg/l	>100 mg/l
Trout	240 mg/l	>100 mg/l
Bees	Non – toxic	Non – Toxic
Bird LD <sub>50</sub> :		
Japanese Quail	5500 mg/kg	Non – Toxic
Pigeons	>5500 mg/kg	Non – Toxic

### **13 DISPOSAL CONSIDERATIONS**

It is unlikely that quantities of product will require disposal. Any product which cannot be used as recommended should be disposed of by a reputable specialist disposal contractor.

Washed empty containers may be disposed of by burning on a roaring fire by a reputable specialist disposal contractor.

### **14 TRANSPORT INFORMATION**

UN Number	3082
Packing Group	3
CDG/CPL (UK), RID/ADR	class 9 11c
IMDG	class 9
Shipping Name	Environmentally hazardous substance, liquid, NOS (contains Isoproturon) MARINE POLLUTANT

### **15 REGULATORY INFORMATION**

Registered as a pesticide under the control of Pesticides Regulations 1986, MAFF numbers 05847 (Ciba Agriculture); 08416 (Novartis).

### **16 OTHER INFORMATION**

Read the label thoroughly before use

**Replaces Ciba Agriculture Health and Safety Data Sheet number CP 057/4**