

PRODUCT SAFETY INFORMATION SHEET

BASF

PRODUCT: **SYPEX**

DATE: 12/11/1999

VERSION: 2

PAGE: 1 of 6

1. SUBSTANCE/PREPARATION AND COMPANY NAME

Product Name: **SYPEX**
MAFF Number: 04650
Company: BASF plc
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Earl Road
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Cheadle
Cheshire SK8 6QG

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Emergency information: 0161 485 6222 (24 hours)

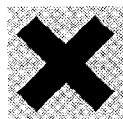
2. COMPOSITION/INFORMATION ON INGREDIENTS

Use: Agricultural plant growth regulator.

Formulation: A soluble concentrate containing 305 g/litre (27.2% w/w) chlormequat chloride and 155 g/litre (13.8% w/w) 2-chloroethylphosphonic acid.

<u>Hazardous ingredients</u>	<u>CAS No.</u>	<u>g/l</u>	<u>Symbol</u>	<u>R Phrases</u>
/ Chlormequat chloride	999-81-5	305	Xn (Harmful)	R21/22
2-chloroethylphosphonic acid		155	C (Corrosive)	R21, R34, R37, R41

3. HAZARDS IDENTIFICATION



HARMFUL IF SWALLOWED (R22)

HARMFUL

Environmental hazards: DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

4. FIRST AID MEASURES

General advice: If a person thinks that they have been exposed to this product and feels unwell, call a doctor or take them to a hospital. Remove all contaminated clothing. Keep them at REST away from source of contamination. DO NOT ALLOW smoking or eating. First aider should avoid becoming contaminated and wear protective clothing if necessary.

Eye contact: Immediately irrigate affected eyes for at least 15 minutes under flowing water, with eyelids open.

Skin contact: Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.

Format based on 91/155/EEC

/ A backslash in the left hand margin indicates an amendment from the previous version.

4. FIRST AID MEASURES contd.

Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with clean water. Seek medical attention immediately.

Inhalation: Keep person calm. remove to fresh air.

Unconsciousness: If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.

GUIDE TO PHYSICIAN - general advice

Active ingredient group: Chlormequat chloride and 2-chloroethylphosphonic acid - miscellaneous.

Toxic effects: The material is of low general toxicity.

Symptoms of accidental over exposure: Symptoms may include skin and eye irritation, coughing, difficulty in breathing, salivation, nausea, vomiting, cardiovascular disorder, depression of the central nervous system and convulsions.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to BASF at Cheadle.

- (i) Chlormequat chloride is a weak ganglionic stimulant with an action similar to that of nicotine. An effective antidote has not been established. Based upon studies, atropine should **NOT** be given as it may act synergistically with this choline derivative once poisoning has taken place.
- (ii) Treatment should be symptomatic and supportive based on judgement of physician.
- (iii) If the product has been swallowed, gastric lavage with proper laryngeal control may be necessary. For ingestion of small quantities activated charcoal as an absorbent in a dosage of 30 grams in 100ml of water may be considered.
- (iv) Maintenance of ventilation and oxygen therapy to be used as required.
- (v) If symptomatic therapy is indicated for control of restlessness, anxiety or convulsions, then Diazepam is recommended as the drug of choice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, foam, dry chemical and carbon dioxide.

Possible harmful fumes in a fire: Nitrogen oxides, hydrogen chloride and phosphoric compounds can be released.

Protective equipment: Self-contained breathing apparatus and protective clothing.

Further information: Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

6. ACCIDENTAL RELEASE MEASURES

If spilled: Wear prescribed protective clothing. Clear spillage immediately. Contain spillage and absorb onto earth, sand or suitable absorbent material. Collect contaminated material and place in a marked container for disposal. Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

Wash thoroughly immediately after handling spillages, or at once if contaminated.

Personal protective equipment: See Section 8

Environmental precautions: Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

7. HANDLING AND STORAGE

Handling: No special measures are necessary. Avoid contact with skin and eyes. When using do not eat, drink or smoke.

Protection against fire and explosion: Incombustible, non-explosive

Storage: Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**(i) PRECAUTIONS (from product label)**

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate (S37).

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY (S23).

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE (S20/21).

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS (S13).

KEEP OUT OF REACH OF CHILDREN (S2).

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

IF YOU FEEL UNWELL, seek medical advice (show label where possible) (S44).

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION contd.**

(ii) PERSONAL PROTECTIVE EQUIPMENT

In tests with a range of pesticide products, protective gloves made of nitrile rubber at least 0.5mm thick and 300mm long have been found to be the most suitable. Gloves made of viton, butyl rubber, neoprene and PVC can also offer good protection. Gloves must protect the whole hand and wrist and repeated use of these gloves depends upon spillages being washed off immediately. The gloves should be thoroughly washed after each operation.

The wearing of other personal protective equipment may be required to supplement the items listed above. These are described in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings". Decontaminate all personal protective equipment after use. When this is not possible dispose of as contaminated wastes.

(iii) OCCUPATIONAL EXPOSURE LIMITS (OESs)

<u>Hazardous ingredients</u>	<u>Long term exposure limit</u>	<u>Short term exposure limit</u>
Not applicable		

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Form:	Liquid, soluble concentrate
Colour:	Colourless
Odour:	Slight amine-like
Freezing/crystallisation temperature:	-13°C
Flash point:	Non-flammable
Fire promoting properties:	None
Density:	1.09-1.15 kg/l (20°C)
Solubility in water:	Fully soluble
pH value undiluted:	1.5 – 3.0 (10 g/l, 20°C)

10. **STABILITY AND REACTIVITY**

Hazardous reactions:	Corrodes aluminium
Substances to avoid:	Alkalis
Hazardous decomposition products:	None if stored and handled correctly.

11. **TOXICOLOGICAL INFORMATION**

Acute toxicity:

Ingestion:	Moderate toxicity	(LD50 oral (rat): 1370 mg/kg)
Skin contact:	Non-irritant	(LD50 dermal (rat): >2500 mg/kg)
Inhalation :	Unlikely to cause a problem	(LC50 inhalation (rat) 4h: >6.2 mg/l)
Eye contact :	Non-irritant	
Sensitising potential:	No sensitising effect	

12. ECOLOGICAL INFORMATION

Ecotoxic effects: Rainbow trout (*Oncorhynchus mykiss*) LC50 96h: >100 mg/l
Algae EC/LC50 (0-72 h): >1000 mg/l
Daphnia EC/LC50 (48h): 21.7 mg/l

13. DISPOSAL CONSIDERATIONS

Leaking containers: Damaged or leaking containers must be dealt with as soon as noticed by sealing them in impermeable containers.

Disposal of used containers: Follow the directions given in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

Used, cleaned, crushed or punctured containers may be burned or buried on farm under controlled conditions, or will generally be accepted at licensed disposal sites.

Disposal of diluted pesticide: Advice for the disposal or re-use of diluted pesticide is given in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

14. TRANSPORT INFORMATION

UN Number : 3265
Packing Group : III

ROAD/RAIL

ADR/RID Class : 8
ADR/RID Item No : 40 (c)
Corrosive, liquid, acidic, organic, N.O.S. (contains 2-chloroethylphosphonic acid). Corrosive to aluminium.

SEA

IMDG Class : 8
Corrosive, liquid, acidic, organic, N.O.S. (contains 2-chloroethylphosphonic acid). Corrosive to aluminium.

AIR

ICAO/IATA Class : 8
Corrosive, liquid, acidic, organic, N.O.S. (contains 2-chloroethylphosphonic acid). Corrosive to aluminium.

Pack sizes : 5 litres
No per outer : 4

15. **REGULATORY INFORMATION**

This product is approved under the "Control of Pesticides Regulations 1986" and is labelled accordingly.

R-phrases - see Section 3

S-phrases - see Section 8

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

This product is subject to The Carriage of Dangerous Goods by Road Regulations, The Carriage of Dangerous Goods by Rail Regulations and The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and amendments (United Kingdom).

16. **OTHER INFORMATION**

For further medical advice Doctors should contact the National Poisons Information Service.

In an emergency further information can be obtained from the National Chemical Emergency Centre 01865 407333 (24 hours).

A backslash in the left hand margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.
