

**CERONE 16460 12X1L IE**Version 1 / IRL  
102000019371/6  
Revision Date: 18.05.2004  
Print Date: 19.05.2004**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name CERONE 16460 12X1L IE  
Product code (UVP) 05927242  
Product code AE F016382 00 SL40 A2  
Product code (EXP) 03725B  
Specification 16460  
Usage growth regulator  
Company Bayer CropScience  
Bayer Ltd  
Chapel Lane, Swords  
CO Dublin  
Ireland

Telephone +353-1-8132222  
Telefax +353-1-8132288  
Emergency telephone number 1800-409-399

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

Soluble concentrate (SL)  
Ethephon 480 g/l SL

**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Ethephon	16672-87-0 240-718-3	C	R20/21, R34, R52/53	39.30
2-Butoxyethanol	111-76-2 203-905-0	Xn	R20/21/22, R36/38	> 1.00 - < 5.00

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

Risk of serious damage to eyes.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**4. FIRST AID MEASURES****General advice**

Remove contaminated, soaked clothing immediately and dispose of safely.

**Inhalation**

Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.

**Skin contact**

Wash off immediately with plenty of water for at least 15 minutes. Seek medical advice immediately.



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### Eye contact

Rinse immediately with plenty of water, also under the eyelids. Seek medical advice immediately.

### Ingestion

Wash out mouth with water. Do not induce vomiting. Keep at rest. Obtain medical attention.

### Notes to physician

#### Symptoms

Local: severe irritation, sensitising effects

#### Symptoms

Systemic: gastro-intestinal irritation.

### Risks

Must NOT be confused with other organophosphorus compounds since no inhibition properties have been detected.

### Treatment

Systemic treatment:

In the event of a mouthful or more being ingested, the following measures should be considered:

Gastric lavage with charcoal, if necessary further treatment.

Contraindication: atropine

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

water spray  
foam  
carbon dioxide (CO<sub>2</sub>)  
dry powder

### Specific hazards during fire fighting

The product itself does not burn.  
In the event of fire the following can be released:  
carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)  
nitrogen oxides (NO<sub>x</sub>)  
phosphorus oxides (eg phosphorus pentoxide)  
hydrogen chloride (HCl)

### Special protective equipment for fire-fighters

Use breathing apparatus.

### Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear acid-resistant boots  
Avoid contact with skin and eyes.

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Keep people and animals away.  
Do not allow spilt product to enter soil or waterways  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Local authorities should be advised if significant spillages cannot be contained.

**Methods for cleaning up**

Recover the product by pumping, suction or absorption using a dry and inert absorbent clay.  
Pick up and fill the product into a tightly closed container.  
When picked up, treat material as prescribed under heading "Disposal".

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**7. HANDLING AND STORAGE****Handling**

Advice on safe handling  
Smoking, eating and drinking should be prohibited in the application area.

**Storage**

Requirements for storage areas and containers  
Keep out of the reach of children.  
Advice on common storage  
Keep away from food, drink and animal feedingstuffs.  
Suitable materials  
High density polyethylene  
Unsuitable material  
carbon steel

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
2-Butoxyethanol	111-76-2	98 mg/m <sup>3</sup> (TWA)	2002	ELV (IE)
2-Butoxyethanol	111-76-2	246 mg/m <sup>3</sup> (STEL)	2002	ELV (IE)

**Personal protective equipment**

Respiratory protection      No personal respiratory protective equipment normally required.

Hand protection              Wear as appropriate:  
Gloves (acid-resistant)

Eye protection                Safety glasses, or face shield if necessary

Skin and body protection      Acid-proof protective clothing

Hygiene measures  
Wash hands immediately after work, if necessary take a shower

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Colour colourless to amber**Safety data**pH < 1  
(undiluted)  
  
pH 1.8 at 10 g/l ( 21 °C)  
  
Boiling point/ range 100 °C  
  
Ignition temperature > 600 °C  
  
Density 1.198 g/cm<sup>3</sup> at 20 °C  
  
Viscosity, kinematic 2.52 mm<sup>2</sup>/s at 40 °C**10. STABILITY AND REACTIVITY**Hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.  
Corrodes metals in the presence of water or moisture.  
Risk of ethylene emission in case of increasing pH.  
Stable under normal conditions.**11. TOXICOLOGICAL INFORMATION**Acute oral toxicity LD50 (rat) > 2,000 mg/kg  
  
Acute dermal toxicity LD50 (rat) > 2,000 mg/kg  
  
Skin irritation slight irritant effect - does not require labelling (rabbit)**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**Toxicity to fish LC50 (Rainbow trout (Oncorhynchus mykiss)) > 100 mg/l  
Exposure time: 96 h  
  
Toxicity to daphnia (Water flea (Daphnia magna)) > 721 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient.  
  
Toxicity to algae EC50 (Scenedesmus subspicatus) 56 mg/l  
Exposure time: 72 h

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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

**Contaminated packaging**

Packaging that cannot be cleaned should be disposed of as product waste.  
Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

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

UN-No	<b>3265</b>
Labels	8
Packaging group	III
Hazard no.	80
Description of the goods	UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON SOLUTION)

**IMDG**

UN-No	<b>3265</b>
Class	8
Packaging group	III
Description of the goods	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON SOLUTION )

**IATA**

UN-No	<b>3265</b>
Class	8
Packaging group	III
Description of the goods	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON SOLUTION )

**15. REGULATORY INFORMATION**

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Hazardous components which must be listed on the label:

- Ethephon

Symbol(s)

Xi                      Irritant

R-phrases)

R41                      Risk of serious damage to eyes.  
R52/53                Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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### S-phrases(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S39	Wear eye/face protection.
S57	Use appropriate containment to avoid environmental contamination.

### Exceptional labelling of special preparations

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

### Further information

WHO-classification: III (Slightly hazardous)

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## 16. OTHER INFORMATION

### Further information

Text of R phrases mentioned in Section 2:

R20/21	Harmful by inhalation and in contact with skin.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

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