

# SAFETY DATA SHEET

10/11/05

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Dow AgroSciences Limited

Latchmore Court  
Brand Street  
Hitchin  
Herts SG5 1NH

Emergency Telephone Number: +44(0)1553 761 251

Product Name: **SYSTHANE 20EW FUNGICIDE (GF-1317) : MAPP 09396/09397**

LV70: 102194

Issue Date: May 05

Ref: PS08

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**2. COMPOSITION/INFORMATION ON INGREDIENTS****Dangerous components (see section 16 for complete R-phrases):**

			CAS	EC No
Myclobutanil	19-20 %	Xn,N; R22-36-51/53-63	88671-89-0	
Cyclohexanone	10-11 %	Xn; R20, R10	000108-94-1	203-631-1
Aromatic hydrocarbon solvent		Xn; R65, N;R51-53, R66	064742-94-5	265-198-5
plus				
Inert ingredients	Balance			
Composition Code	GF1317			

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**3. HAZARDS IDENTIFICATION**

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child.

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## 4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

### Ingestion

Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made by a physician.

### Eye Contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

### Skin Contact

Wash off in flowing water or shower, use soap if available. Consult a physician if irritation develops.

### Inhalation

Remove to fresh air. Consult a physician.

### Note to Physician

Supportive care. Treatment based on judgement of physician in response to symptoms of patient. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

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## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

Water fog or fine spray. Carbon dioxide. Dry chemical powder. Foam.

### Hazardous Combustion Products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Combustion products include: Hydrogen chloride. Hydrogen cyanide.

### Protection of Firefighters

Wear protective clothing and use self-contained breathing apparatus.

### Additional Information

Cool containers exposed to fire or heat with water spray. Contain runoff to prevent entry into water or drainage systems. Avoid breathing smoke. Work upwind of any spill.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Wear appropriate safety clothing and eye/face protection (see Section 8). Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

### Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

### Methods of Cleaning Up

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

### Additional Information

Ventilate area of leak or spill. Do not breathe vapours.

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## 7. HANDLING AND STORAGE

### Handling

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

### Storage

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Myclobutanil: Dow AgroSciences recommendation is 1.0 mg/m<sup>3</sup>.

### Engineering Controls

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

### Respiratory Protection

For most conditions, no respiratory protection should be needed. However, when airborne exposure guidelines and/or comfort levels may be exceeded use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

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**Hand/Skin Protection**

For brief contact, no precautions other than clean body-covering clothing and chemical resistant gloves should be needed. Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Nitrile. Examples of acceptable glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Avoid gloves made of: Natural rubber ("latex").

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

**Eye/Face Protection**

Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: white
Odour	: ester-like
Rel. density (water=1)	: 1.03 g/cm <sup>3</sup>
Rel. vapour density (air=1)	: 5.2 (solvent)
Melting point/range	: same as water
Boiling point/range	: same as water
Flash point	: 111 deg.C (solvent)
pH	: 7-9
Water solubility	: disperses
Viscosity	: 700-1200 mPa.s

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## 10. STABILITY AND REACTIVITY

### Chemical Stability

Is stable under normal storage conditions.

### Conditions to Avoid

Avoid high temperatures (at or near flash point), open flame, sparks and direct sunlight.

### Materials to Avoid

Strong oxidising agents.

### Hazardous Decomposition Products

Hydrogen chloride.

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## 11. TOXICOLOGICAL INFORMATION

Based on data for similar formulation.

### Ingestion

Low toxicity if swallowed. The oral LD50 for rats is >2000mg/kg.

### Skin Contact

The dermal LD50 for rats is >2000mg/kg. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Essentially nonirritating to the skin.

### Sensitisation

Non-sensitising to guinea pig skin.

### Eye Contact

May cause moderate eye irritation.

### Inhalation

The LC50 for inhalation in rats is >5 mg/L. No adverse effects anticipated by this route of exposure incidental to proper handling.

### Additional Information

Not carcinogenic. Not mutagenic.

Myclobutanil: This substance is classified as toxic for reproduction category 3 in the EC.

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## 12. ECOLOGICAL INFORMATION

### Persistence and Degradability

Assessment largely or completely based on data for active ingredient. Half-life in soils is dependent on soil type and conditions and is approximately 66 days.

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Based on data for similar formulation.

**Aquatic Toxicity**

Material is harmful to fish on an acute basis (10mg/L<LC50<100mg/L).

Material is toxic to aquatic invertebrates on an acute basis  
(1mg/L<EC50<10mg/L).

Material is toxic to algae (1mg/l< IC50 <10 mg/l).

**Avian Toxicity**

Assessment largely or completely based on data for active ingredient.

Acute oral LD50 for bobwhite (*Colinus virginianus*) is 510mg/kg.

**Additional Information**

Assessment largely or completely based on data for active ingredient.

LD50 for bees is >362 microgram/bee.

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**13. DISPOSAL CONSIDERATIONS**

Toxic to aquatic organisms. Do not contaminate ponds, waterways or ditches with chemical or used container. The preferred options are to send to licensed reclaimer or to permitted incinerators. Any disposal practice must be in compliance with all local and national laws and regulations.

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**14. TRANSPORT INFORMATION****Road & Rail**

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Myclobutanil)

Truck/Rail ADR/RID : 9 Label : 9

Classification Code : M6

Packing Group : III

Kemler Code : 90 UN Number : 3082

Tremcard Nr. CEFIC : 90GM6-III

**Sea**

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Myclobutanil)

Sea - IMO/IMDG Class: 9 UN Nr : 3082 Label: 9

Packing Group : III EMS : F-A, S-F

Marine Pollutant : Y (Y/N)

