

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name. : GAVEL  
Product code : CE 002 C0030  
Active Ingredient : Imazalil  
Type of formulation : Soluble concentrate (SL)

**1.2. Relevant identified uses of the substance or mixture and uses advised against****2.1. Relevant identified uses**

Main use category : Plant protection product for professional use. Agriculture.  
Use of the substance/mixture : Fungicide.

**1.2.2. Uses advised against**

No additional information available.

**1.3. Details of the supplier of the safety data sheet**

CERTIS UK

Suite 5, 3 Riverside

Granta Park

Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Tel: +44 (0)845 373 0305

Fax: +44 (0)1223 891210

Email: [certis@certiseurope.co.uk](mailto:certis@certiseurope.co.uk)

Website: [www.certiseurope.co.uk](http://www.certiseurope.co.uk)

**1.4. Emergency telephone number**

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.  
For advice on medical emergencies, fires, spillages or chemical hazards only –phone: 0870 190 6777.  
For further advice for medical professionals - The National Poisons Information Service:  
Tel: 0870 600 6266 (UK only) or Dublin Tel: 0035 3 137 99 64/379966.  
For further advice for veterinary surgeons: 020 7635 9195.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Eye Dam. 1 H318

Carc. 2 H351

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazardous ingredients

: Imazalil

Hazard statements (CLP)

: H318 - Causes serious eye damage.  
 H351 - Suspected of causing cancer.  
 H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
 P501 - Dispose of contents/container to a suitable disposal site in accordance with local and national regulations.  
 SP1 – Do not contaminate water with its product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farm yards and roads)

EUH phrases

: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Imazalil	(CAS No) 35554-44-0 (EC no) 252-615-0 (EC index no) 613-042-00-5	5 - 10	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Carc. 2, H351 Aquatic Chronic 1, H410
Polyaryphenyl ether phosphate	(CAS No) 90093-37-1	< 5	Eye Irrit. 2, H319

Full text of H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: In the event of any complaints or symptoms, avoid further exposure.

First-aid measures after inhalation	: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist call a doctor.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray Dry chemical powder Alcohol resistant foam Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	: Jet of water.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.
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#### 5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Do not breathe fumes Cool closed containers exposed to fire with water spray If possible, take the containers out of dangerous zone. Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers or streams.
Protection during firefighting	: Wear suitable protective clothing, gloves, eye/face protection and respiratory protection Wear a self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection.
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Emergency procedures : Evacuate area.

Ensure adequate ventilation.

Avoid direct contact with the substance.

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

### 6.2. Environmental precautions

Toxic to aquatic life with long lasting effects.

Prevent entry to sewers and public waters.

Notify the authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

Once absorbed collect spilled material with shovels, buckets and place in closed containers and label properly.

Remove as chemical waste, according to national or local legislation.

In the event of major spillage: contact an expert.

### 6.4. Reference to other sections

See sections 7-8-13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Read label before use.

Use only in well-ventilated areas.

Avoid breathing spray.

Avoid contact with eyes, skin, nose and mouth.

Wear suitable protective clothing, gloves and eye or face protection.

Opened containers must be carefully closed and kept upright to avoid leakage.

Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide adequate ventilation.

Storage conditions : Prevent unauthorised access.

Keep in original containers, tightly closed.

Keep out of reach of children.

Protect against frost.

Keep away from food, drink and animal feeding stuffs.

Maximum storage period : 2 year

### 7.3. Specific end use(s)


Fungicide.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Protective clothing. Protective goggles. Gloves. Dust/aerosol mask.
	
Hand protection	: Wear impervious gloves chemical resistant nitrile rubber (EN 374-3)
Eye protection	: Safety goggles or a face shield. (EN 166)
Skin and body protection	: Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots. (EN 1383-3/EN ISO 20345)
Respiratory protection	: Wear appropriate respirator for dust / organic vapors.
Hygiene measures	: Do not eat, drink or smoke while handling the product. Clean gloves with soap and water before removing. Wash hands and face with soap and water before eating, drinking or smoking. Clean equipment, premises and work clothes regularly. Work clothing should remain on the work area and stored separately from street clothes.
Environmental exposure controls	: Discharge into the environment must be avoided. Do not contaminate surface and groundwater.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Colour	: Yellowish.
Odour	: Solvent-like
Odour threshold	: No data available
pH	: 4,24 (1% aqueous solution)
Evaporation rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: 101 °C
Flash point	: > 101 °C
Auto-ignition temperature	: 545 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not required for liquid formulation.
Vapour pressure	: No data available
Relative density	: 1,0740 kg/l (20°C)
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: 2.142 x 10 <sup>-6</sup> m <sup>2</sup> /s (20 °C)
Viscosity, dynamic	: 2.292 mPa.s (20 °C)
Explosive properties	: No explosive properties.
Oxidising properties	: No oxidising properties.
Upper/lower flammability or explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified.

GAVEL	
LD <sub>50</sub> oral rat	> 2000 mg/kg
LD <sub>50</sub> dermal rabbit	> 2000 mg/kg bw
LC <sub>50</sub> inhalation rat	> 5 mg/l/4h

Skin corrosion/irritation : Not classified (Non irritant to skin)  
 Serious eye damage/irritation : Risk of serious damage to eyes.  
 Respiratory or skin sensitisation : Not classified (Not a skin sensitiser.)  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified  
 Specific target organ toxicity (repeated exposure) : Not classified  
 Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

GAVEL	
LC50 Fishes ( <i>Oncorhynchus mykiss</i> )	20,99 mg/l (96 h, static)
EC50 Daphnia ( <i>Daphnia magna</i> )	20,306 mg/l (48h, static)
ErC50 Algae ( <i>Desmodesmus subspicatus</i> )	3,81 mg/l (48 h, nominal)

### 12.2. Persistence and degradability

In soil laboratory incubations under aerobic conditions in the dark imazalil exhibits moderate to very high persistence.

### 12.3. Bioaccumulative potential

Imazalil (35554-44-0)	
BCF Fish	63,8
Log Pow	3,82

### 12.4. Mobility in soil

Imazalil is immobile to slightly mobile in soil.

### 12.5. Results of PBT and vPvB assessment

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste treatment methods : Apply triple washing procedure of the empty container and place the rinse water in the tank or container where the mixture is prepared. Handle empty containers and waste as established by the competent authorities.

**SECTION 14: Transport information**

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

**14.1. UN number**

UN-No. : 3082  
UN-No.(IATA) : 3082

**14.2. UN proper shipping name**

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (imazalil)  
Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (imazalil), 9, III, (E)

**14.3. Transport hazard class(es)**

Class (UN) : 9  
Class (IATA) : 9 - Miscellaneous dangerous goods.  
Hazard labels (UN) : 9



**14.4. Packing group**

Packing group (UN) : III

**14.5. Environmental hazards**

Dangerous for the environment :  
Marine pollutant :

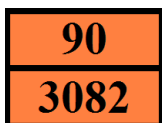


Other information : No supplementary information available.

**14.6. Special precautions for user**

**14.6.1. Overland transport**

Hazard identification number (Kemler No.) : 90  
Classification code (UN) : M6  
Orange plates :



Special provision (ADR) : 274, 335, 601  
Transport category (ADR) : 3  
Tunnel restriction code : E  
Limited quantities (ADR) : 5L  
Excepted quantities (ADR) : E1

EAC code : •3Z

**14.6.2. Transport by sea**

EmS-No. (1) : F-A, S-F

**14.6.3. Air transport**

No additional information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions.

Contains no REACH candidate substance.

**15.1.2. National regulations**

No additional information available.

**15.2. Chemical safety assessment**

A chemical safety assessment is not required for this product. The mixture is assessed under the provisions of Regulation (EC) 1107/2009.

**SECTION 16: Other information**

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H410	Very toxic to aquatic life with long lasting effects
EUH401	To avoid risks to human health and the environment, comply with the instructions for use