

Grisu

(MAPP 15375)

**A suspension concentrate formulation
containing 500 gms per litre iprodione**

**A fungicide for control
of *Botrytis* and *Alternaria*
in strawberry (outdoor
and protected), tomato
(protected), brussels
sprout, cauliflower,
salad onion, lettuce
(protected and outdoor),
raspberry (outdoor),
brassica for seed
production and
ornamentals and
control of *Sclerotinia*
and *Alternaria*
in Oilseed rape.**



SIPCAM U.K.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name GRISU
Use Fungicide
Formulation Suspension Concentrate
Supplier: Sipcam UK Limited, 4C Archway House, Melbourn Street, Royston SG8 7BX.
Emergency No 01763 212100.

2. HAZARDS IDENTIFICATION

Classification of substance according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful		R40
N; Dangerous for the environment		R51/53

Additional information For the wording of risk and safety phrases refer to section 15.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients (according to Directive 1999/45/EC)

	CAS/EINECS	R Phrases	%
Iprodione	36734-19-7/253-178-9	Xn, R40, N R50/53	41%

Additional information For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

General information:

Show this safety data sheet to the doctor.
Remove any clothing soiled by the product.

After inhalation:

Supply fresh air or oxygen; call for doctor.
In case of unconsciousness bring patient into stable side position for transport.

After skin contact:

Instantly wash with water and soap and rinse thoroughly.
Instantly rinse with water.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing:

In case of persistent symptoms consult doctor.

Information for doctor:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5. FIRE FIGHTING MEASURES

Suitable extinguishing agents

CO₂, extinguishing powder or water jet.
Fight larger fires with water jet or alcohol-resistant foam.
Special hazards arising from the substance or mixture
Formation of toxic gases possible during heating or in fire: nitrogen oxides (NO_x), carbon monoxide (CO)

Protective equipment:

Put on breathing apparatus.

Additional Information:

Cool endangered containers with water spray, Keep upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment, Keep unprotected people away.

Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.

Do not allow to enter drainage system, surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections:

See Section 7 for safe handling, 8 for personal protection equipment, 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Information about protection against explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Keep container tightly sealed. Store in cool, dry place. Store only in original container.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep away from direct sunlight. Protect from frost.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace: No data

Personal protective equipment

The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Breathing equipment:

Breathing protection is recommended

Protection of hands:

Protective gloves.

Eye protection:

Safety glasses.

Body protection:

Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Melting point or range:

Not determined

Solids content:

42.3%

Form: Liquid

Boiling point or range:

Not determined

Solvent content:

Organic solvents: 0 %

Water: 41.7%

Colour: Whitish

Flash point:

Not applicable

Odour: Characteristic

Self-Flammability:

Product is not self-igniting.

Solubility / Miscibility (water):

Not miscible

pH-value at 20°C: 5.2

Danger of explosion: Density:

Product is not explosive.

1.22 g/cm³

10. REACTIVITY AND STABILITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

LD/LC50 values that are relevant for classification:

Oral LD50 2500 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

Inhalation LC50/4 h > 5 mg/l (rat)

Skin Irritation: No irritant effect.

Eye Irritation: No irritant effect.

Sensitisation: No sensitization effect known.

12. ECOLOGICAL INFORMATION

Aquatic toxicity (formulated product):

EC 50: 18.1 mg/l (algae)

LC 50: 6.67 mg/l (daphnia magna)

LC 50: 14.2 (96h) mg/l (fish, rainbow trout)

Persistence and degradability: No further relevant information available.

Bioaccumulative potential:

Iprodione - Kow logP 3.1 (partition n-octanol/water)

Mobility in soil: Moderately mobile.

Notes: Do not allow product to reach groundwater, water bodies or sewage system.

Danger to drinking water if small quantities leak into soil.

13. DISPOSAL

Waste or used preparation: Use specialist waste contractor in accordance with local regulations.

Disposal of packaging: Use specialist waste contractor in accordance with local regulations.

Do not dispose in household garbage.

14. TRANSPORT

UN-Number (ADR, IMDG, IATA) 3082

Proper shipping name(ADR, IMDG, IATA)

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (iprodione (ISO))

Hazard class (ADR,IMDG, IATA): Class 9 Miscellaneous Dangerous Goods

Packing group (ADR, IMDG, IATA): III

Marine pollutant: Yes

Special marking (ADR): Symbol (fish and tree)

Special precautions (user)

Kemler Number: 90

EMS Number: F-A,S-F

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Transport/Additional information:

ADR: Tunnel restriction code D/E

15. REGULATORY INFORMATION

Hazard-determining components of labelling: Iprodione

Symbol(s)

Xn Harmful

N Dangerous for the environment

Risk (R) phrases:

40 Limited evidence of a carcinogenic effect.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety (S) phrases:

2 Keep out of reach of children

13 Keep away from food, drink and animal feedingstuffs.

23 Do not breathe spray.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label).

51 Use only in well ventilated areas

57 Use appropriate container to avoid environmental contamination

60 This material and its container must be disposed of as hazardous waste.

This substance is not to be considered as persistent, bioaccumulative criterion and is not toxic (PBT).

16. OTHER INFORMATION

R Phrases referenced in section 3:

R40 Limited evidence of a carcinogenic effect.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Prepared by Sipcam UK Ltd to the best of our current knowledge and information:

No responsibility is accepted that the information will be sufficient or correct in all cases.

March 2012
