

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Noble Iprodione
Approved Use: Fungicide
Supplier: Barclay Chemicals Manufacturing Ltd.,
 Damastown Way
 Damastown Industrial Park
 Mulhuddart
 Dublin 15
Telephone No: 01-811 2900
Fax No: 01-822 4678
Issued By: Barclay Chemicals Ltd.

EMERGENCY TELEPHONE NUMBER: DAYTIME: 01-811 2900
24 HOUR: 086 385 7769

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name			
1.	Iprodione			
2.	1,2- Propanediol			
3.	Tributyl phenol polyglycol ether			

No.	CAS No. EINECS-No	R Phrases	Concentration(%)	Classification
1.	26734-19-7 253-178-9	R40, R50/53	25.00	Xn, N
2.	57-55-6 200-338-0	-----	>1.00 - <5.00	-----
3.	9046-09-7	R22,R41,R51/53	>0.10 - <1.00	Xn, N

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = Skin absorption

3. HAZARDS IDENTIFICATION

Human: Limited evidence of a carcinogenic effect
Environmental: Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

4. FIRST-AID MEASURES

General Advice: In the case of an accident or if you feel unwell, seek medical advice immediately and show this label where possible.
Skin Contact: After contact with skin, wash immediately with plenty of water
Eye Contact: Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.
Ingestion: If swallowed, seek medical advice immediately and show this container or label.

Notes to Physician

Treatment

There is no specific antidote.
Treat symptomatically.
Medical supervision for minimum 48 hours.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, CO₂, foam, dry powder.
Special Exposure Hazards: The product itself does not burn.
In the event of fire the following can be released:
carbon monoxide (CO)
hydrogen chloride (HCl)
nitrogen oxides (NO_x)
Protective Equipment for fire fighters: Use breathing apparatus

Further information:

Contain the spread of the fire-fighting media

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment
Environmental Precautions: Do not discharge into the drains/surface water/groundwater.
If spillage enters drains leading to sewage works inform local water company immediately.

Methods for Cleaning Up:

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).
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 in Ch. 13."Disposal considerations"

Additional Advice:

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Check also for any local site procedures.

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 feeding stuffs.
Suitable materials, High density polyethylene

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hygiene Measures:

Clean hands and face at work intervals and after work.

Respiratory Protection:

No personal respiratory protective equipment normally required.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation.

Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand Protection:

Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm).

Wash when contaminated.

Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Wash hands always before eating, drinking, smoking or using the toilet.

Eye Protection:

Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin Protection:

Wear standard coverall and type 3 suit.

Wear two layers of clothing wherever possible.

Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid suspension
Colour:	Green
pH	3-5 AT 1% (20° C)
Density:	1.02 g/cm ³ at 20 °C
Viscosity:	40-100 Mpa.s at 30°C
Water Solubility	Dispersible

10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and direct sunlight
Materials to Avoid:	None
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Skin Irritation:	No skin irritation. (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization:	Non-sensitizing
Acute Oral Toxicity:	LD50 (rat) > 2000 mg/kg
Acute Dermal Toxicity:	LD50 (rat) > 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:

Toxicity to Fish :	LC50 (Rainbow trout (Oncorhynchus mykiss)) 24 mg/l Exposure time: 96 h
Toxicity to daphnia:	EC50 (Water flea (Daphnia magna)) 0.25l Exposure time: 48 h
Toxicity to algae	The value mentioned relates to the active ingredient EC50 (Senastrum capricornutum) 12.8l Exposure time: 72

13. DISPOSAL CONSIDERATIONS

Product

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.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

14. TRANSPORT INFORMATION

ADNR:	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S (IPRODIONE SOLUTION) PG III, Class 9 . Hazard no.: 90
IMDG Classification:	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S (IPRODIONE SOLUTION) PGIII, Class 9 Marine pollutant
IATA:	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S (IPRODIONE SOLUTION) PGIII, Class 9
UK Carriage Regulations:	UN 3082. , ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. (IPRODIONE SOLUTION) PGIII, Class 9 . Emergency action code 3Z Hazard no.: 90

15. REGULATORY INFORMATION

Xn Harmful
N Dangerous for the environment

R-Phrases:

R40 - Limited evidence of carcinogenic effect
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of R phrases mentioned in Section 2:

R22 - Harmful if swallowed
R41 - Risk of serious damage to eyes.
R51/53 - Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

S-Phrases :

S35 - This material and it's container must be disposed of in a safe way.
S36/37 - Wear suitable protective clothing and gloves.
S57 - Use appropriate container to avoid environmental contamination.

16. OTHER INFORMATION

Version: 0 Date prepared : 28/11/2006
Version: 1 Revision 02.04.07 : Emergency phone number updated

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness. This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.