

according to Regulation (EC) No. 453/2010

Date of issue: 20/12/2013 Revision date: 20/12/2013 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Mixture
Product name	: THIANOSAN DG
Product code	: TO 079 1293
Type of formulation	: Water dispersable (WG)
Active Ingredient	: Thiram
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 safe	ety data sheet
CERTIS UK	
1 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	
Website: www.certiseurope.co.uk	
1.4. Emergency telephone number	
Emergency number	: Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.

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 Directive 67/548/EEC or 1999/45/EC Xn; N; R20/22 R48/22 R43 R50/53 Full text of R-phrases: see section 16.



Safety Data Sheet

according to Regulation (EC) No. 453/2010 Date of issue: 20/12/2013 Revision date: 20/12/2013

Version: 1.0

Adverse physicochemical, human health and environmental effects

Harmful by inhalation and if swallowed. May cause sensibilisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements 2.2.

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols



Xn - Harmful N - Dangerous for

the environment

: R20/22 - Harmful by inhalation and if swallowed. **R**-phrases R43 - May cause sensibilisation by skin contact. R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S-phrases : S2 - Keep out of the reach of children. S13 - Keep away from food, drink and animal feedingstuffs. S20/21 - When using do not eat, drink or smoke. S24 - Avoid contact with skin. S28 - After contact with skin, wash immediately with plenty of water. S35 - This material and its container must be disposed of in a safe way. S36/37 - Wear suitable protective clothing and gloves. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46 - If swallowed, seek medical advice immediately and show this container or label. S29/35 - Do not empty into drains; dispose of this material and its container in a safe way. S57 - Use appropriate container to avoid environmental contamination. S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

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 Directive 67/548/EEC
Thiram	(CAS No) 137-26-8	80	Xn; R20/22
			Xn; R48/22
			Xi; R36/38
			Xi; R43
			N; R50/53



Version: 1.0

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Thiram	(CAS No) 137-26-8	80	Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Inhalation:dust,mist), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2, H319
			Skin Sens. 1, H317
			STOT RE 2, H373
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410

Full text of R-, 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 effect	cts, both acute and delayed
Symptoms/injuries	: No information available.
4.3. Indication of any immediate medica	I 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 ₂).
Unsuitable extinguishing media	: Jet of water.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Dust may form explosive mixture in air. Heating can release hazardous gases.



Version: 1.0

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: 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.
: Wear suitable protective clothing, gloves, eye/face protection and respiratory protection
Wear a self-contained breathing apparatus.
asures
quipment and emergency procedures
: Wear suitable protective clothing, gloves and eye or face protection.
: 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.
or public waters.
nent and 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 an label properly.
Remove as chemical waste, according to national or local legislation.
In the event of major spillage: contact an expert.
: Read label before use.
Avoid contact with eyes, skin, nose and mouth.
Avoid contact with eyes, skin, nose and mouth. Wear suitable protective clothing, gloves and eye/face protection.
>

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



Version: 1.0

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Hygiene measures	: Always wash your hands immediately after handling this product, and once again before leaving		
	the workplace.		
	Contaminated work clothing should not be allowed out of the workplace.		
	Do no eat, drink or smoke when using this product.		
	Wash contaminated clothing before reuse.		
7.2. Conditions for safe storage, in	ncluding any incompatibilities		
Technical measures	: Provide adequate ventilation.		
Storage conditions	: Prevent unauthorised access.		
	Keep locked up and out of the reach of children.		
	Keep in original containers, tightly closed.		
	Keep away from food, drink and animal feedingstuffs.		
	Protect against frost.		
	Keep away from heat and direct sunlight.		
7.3. Specific end use(s)			
Fungicide for agricultural use. Refer to the	label.		
SECTION 8: Exposure controls			
8.1. Control parameters			
8.1. Control parameters Thiram : TWA : 0.05 mg/m ³ (Inhalable frac	tion and vapor)		
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 resistant to chemical. Nitrile rubber.		
Eye protection	: Safety goggles or a face shield.		
Skin and body protection	: Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots.		
Respiratory protection	: Wear mask with particle filter P3 (European Norm 143).		
	In case of higher concentration wear self-contained breathing apparatus (EN 133)		
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 chem	ical properties		
9.1. Information on basic physical	and chemical properties		
Bhysical state	· Solid		



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Version: 1.0

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9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity

10.1.	Reactivity		
The pro	The product is stable at normal handling and storage conditions.		
10.2.	Chemical stability		
The pro	The product is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
Hazardo	Hazardous polymerization does not occur.		
Is not e	xplosive and does not exhibit oxidant properties.		
10.4.	Conditions to avoid		
Avoid dust formation. humid air and water. Heat.			
10.5.	Incompatible materials		
Decom	Decomposes by reaction with strong acids.		
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	: Harmful if swallowed.
THIANOSAN DG	
LD50 oral rat	1.407 mg/kg



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Version: 1.0

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THIANOSAN DG	
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat	4.4 mg/l/4h
Irritation	: Not classified
Corrosivity	: Not classified
Sensitisation	: May cause sensibilisation by skin contact.
Repeated dose toxicity	: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified
Human experience	: May cause cardiac arrhythmia, headache, eczema, dermatitis, nausea, Shortness of breath,

IJ Allergic reactions.

More severe effects if alcohol is consumed

SECTION 12: Ecological information

12.1. Toxicity

THIANOSAN DG	
LC50 Fishes	0.046 - 1.20mg/l
EC50 Daphnia (Daphnia magna)	0.2 mg/l (48h)
EC50 Algae	0.14 mg/l

Persistence and degradability 12.2.

Degradation half life after 2-7 days.

12.3.	Bioaccumulative potential		
THIAN	IANOSAN DG		
Log Po	W	1.73	

12.4. **Mobility in soil**

Koc = 2245-24526

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

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.



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:

Version: 1.0

In accordance with ADR / RID / ADNR / IMD	Ο ΓΙ ΓΓΑΟ / ΙΑΤΑ
14.1. UN number	
UN-No.	: 3077
UN-No.(IATA)	: 3077
14.2. UN proper shipping name Proper Shipping Name	
	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiram). UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiram)., 9, III
Transport document description	. UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIRAIT)., 9, III
14.3. Transport hazard class(es)	
Class (UN)	: 9
Class (IATA)	: 9 - Miscellaneous dangerous goods.
14.4. Packing group	
Packing group (UN)	: III
14.5. Environmental hazards	
Dangerous for the environment	: ^
Other information	: No supplementary information available.
14.6. Special precautions for user	
14.6.1. Overland transport	
Classification code (UN)	: M7
Special provision (ADR)	: 274, 335, 601
Transport category (ADR)	: 3
14.6.2. Transport by sea	
No additional information available	
14.6.3. Air transport	
No additional information available	
14.7. Transport in bulk according to A	Annex II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory informa	tion
15.1. Safety, health and environment	al 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.	



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:

Version: 1.0

SECTION 16: Other information

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R20/22	Harmful by inhalation and if swallowed
R22	Harmful if swallowed
R36/37	Irritating to eyes and respiratory system
R36/38	Irritating to eyes and skin
R43	May cause sensibilisation by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Ν	Dangerous for the environment
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.