

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2020
1.1	15.11.2020	000000000000102162	Date of first issue: 30.09.2020
		Region: GB	Print Date: 19.05.2021
		Language: EN	

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

1.1 Product identifier

Trade name : MODAN 250 EC
Product code : 000000000000102162

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

Use of the Sub-stance/Mixture : Growth regulator
Uses advised against : No data available.

1.3 Details of the supplier of the safety data sheet

Company : HELM AG
Nordkanalstrasse 28
20097 Hamburg
Telephone : +49/40/23750
Telefax : +49/40/23751845
E-mail address of person responsible for the SDS : SDB@HELMAG.COM

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)
In case of transport incidents and other emergencies:
+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.

SAFETY DATA SHEET

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	  
		GHS05 GHS07 GHS09
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH210 Safety data sheet available on request. EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
Precautionary statements	:	Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P391 Collect spillage. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SAFETY DATA SHEET

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Version 1.1 Revision Date: 15.11.2020 SDS Number: 000000000000102162 Date of last issue: 30.09.2020
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Trinexapac-ethyl	95266-40-3	Aquatic Chronic2; H411	$\geq 25 - < 30$
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Skin Irrit.2; H315 Eye Dam. 1; H318	$\geq 3 - < 10$
butan-1-ol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38	Flam. Liq.3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	$\geq 1 - < 3$

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
- In case of skin contact : Call a physician immediately.

In case of skin contact
Wash off with plenty of water.
- In case of eye contact : Call a physician immediately.

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protect unharmed eye.
- If swallowed : Drink plenty of water.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2020
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Rinse mouth with water.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)
Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Combustion products of this material have to be classed invariably as respiratory poison.

Hazardous combustion products : In the event of fire, the following can be released:
Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Suppress (knock down) gases/vapours/mists with a water spray jet.

Further information : Cool endangered containers with water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Do not allow uncontrolled discharge of product into the environment. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see chapter 7. For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle with care. Avoid inhalation, ingestion and contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Vapours may form explosive mixture with air. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition. Use explosion-proof equipment/fittings and non-sparking tools.

Hygiene measures : Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Keep away from heat. Keep away from direct sunlight. Always keep in containers of same material as the original.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

Version 1.1 Revision Date: 15.11.2020 SDS Number: 000000000000102162 Date of last issue: 30.09.2020
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Advice on common storage : Substances to be avoided, pls. See chapter 10.

Recommended storage temperature : 5 - 35 °C

7.3 Specific end use(s)

Specific use(s) : No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
butan-1-ol	71-36-3	STEL	50 ppm 154 mg/m ³	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Fatty acids, C16-18 and C18-unsatd., Me esters	Workers	Inhalation	Long-term exposure, Chronic effects, Systemic effects	6.96 mg/cm ²
	Workers	Dermal	Long-term exposure, Chronic effects, Systemic effects	10 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Chronic effects, Systemic effects	23 mg/m ³
	Consumers	Dermal	Long-term exposure, Chronic effects, Systemic effects	5 mg/kg bw/day
	Consumers	Oral	Long-term exposure, Chronic effects, Systemic effects	5 mg/kg bw/day
butan-1-ol	Workers	Inhalation	Long-term exposure, Chronic effects, Local effects	310 mg/m ³
	Consumers	Inhalation	Long-term exposure, Chronic effects, Local effects	55 mg/m ³
	Consumers	Oral	Long-term exposure, Chronic effects, Sys-	3.125 mg/kg bw/day

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

Version 1.1 Revision Date: 15.11.2020 SDS Number: 000000000000102162 Date of last issue: 30.09.2020
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			temic effects	
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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Fatty acids, C16-18 and C18-unsatd., Me esters	Fresh water	2.504 mg/l
	Marine water	0.2504 mg/l
	Aqua intermittent	25.04 mg/l
	Sewage treatment plant	520 mg/l
butan-1-ol	Fresh water	0.082 mg/l
	Marine water	0.0082 mg/l
	Aqua intermittent	2.25 mg/l
	Fresh water sediment	0.178 mg/kg dry weight (d.w.)
	Other environmental compartments	0.0178 mg/kg dry weight (d.w.)
	Soil	0.015 mg/kg dry weight (d.w.)
	Sewage treatment plant	2476 mg/l

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system
Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Safety glasses with side-shields
Equipment should conform to EN 166

Hand protection

Remarks : Protective gloves complying with EN 374.
Gloves must be inspected prior to use.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Preventive skin protection

Respiratory protection : Apply technical measures to comply with the occupational

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

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exposure limits.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	:	liquid
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	ca. 4.1 Method: CIPAC MT 75.3
	:	No data available
	:	No data available
Flash point	:	125 °C
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.989 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	emulsifiable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

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1.1	15.11.2020	000000000000102162	Date of first issue: 30.09.2020
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Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Viscosity	:	
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	no
Particle size	:	Not applicable
Self-ignition	:	260 °C
		Method: Regulation (EC) No. 440/2008, Annex, A.15

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None, when used as directed.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

None, when used as directed.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC50 (Rat): > 5.05 mg/l Exposure time: 4 h Test atmosphere: Aerosol Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Acute oral toxicity	:	LD50 (Rat, female): 4,210 mg/kg Method: OECD Test Guideline 401 Remarks: Source: EFSA
Acute inhalation toxicity	:	LC50 (Rat): > 5.3 mg/l Exposure time: 4 h Test atmosphere: Dust Method: OECD Test Guideline 403 Remarks: Source: EFSA
Acute dermal toxicity	:	LD50 (Rat): > 4,000 mg/kg Method: OECD Test Guideline 402 Remarks: Source: EFSA

butan-1-ol, CAS: 71-36-3, EINECS: 200-751-6

Acute oral toxicity	:	LD50 (Rat): ca. 2,292 mg/kg Method: OECD Test Guideline 401 Remarks: Source: ECHA
Acute dermal toxicity	:	LD50 (Rabbit): ca. 3,430 mg/kg Method: OECD Test Guideline 402 Remarks: Source: ECHA

Skin corrosion/irritation

Product:

Method	:	OECD Test Guideline 404
Result	:	No skin irritation

SAFETY DATA SHEET

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		Language: EN	

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Source: EFSA

butan-1-ol, CAS: 71-36-3, EINECS: 200-751-6

Species : Rabbit
Result : irritant
Remarks : Source: ECHA

Serious eye damage/eye irritation

Product:

Method : OECD Test Guideline 405
Result : irritant - risk of strong eye injuries

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Species : Rabbit
Method : OECD Test Guideline 405
Result : No skin irritation
Remarks : Source: EFSA

butan-1-ol, CAS: 71-36-3, EINECS: 200-751-6

Species : Rabbit
Method : OECD Test Guideline 405
Result : strongly irritant
Remarks : Source: ECHA

Respiratory or skin sensitisation

Product:

Exposure routes : Dermal
Method : OECD Test Guideline 429
Result : slightly sensitizing

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2020
1.1	15.11.2020	000000000000102162	Date of first issue: 30.09.2020
		Region: GB	Print Date: 19.05.2021
		Language: EN	

Result : non-sensitizing
Remarks : Source: EFSA

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Bacterial Reverse Mutation Test
Test system: Salmonella typhimurium TA98, TA100, TA102, TA1535, TA1537
Method: OECD Test Guideline 471
Remarks: Based on available data, the classification criteria are not met.

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.
Remarks: Source: EFSA

butan-1-ol, CAS: 71-36-3, EINECS: 200-751-6

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.
Remarks: Source: ECHA

Carcinogenicity

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: Source: EFSA

Reproductive toxicity

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: Source: EFSA

butan-1-ol, CAS: 71-36-3, EINECS: 200-751-6

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.
Remarks: Source: ECHA

STOT - single exposure

Product:

Exposure routes : Inhalation
Assessment : May cause respiratory irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

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1.1	15.11.2020	000000000000102162	Date of first issue: 30.09.2020
		Region: GB	Print Date: 19.05.2021
		Language: EN	

Repeated dose toxicity

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Assessment : Based on available data, the classification criteria are not met.
Remarks : Source: EFSA

Further information

Product:

Remarks : Inhalation of vapours may lead to headache, drowsiness and dizziness.
Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 21 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 36.2 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Navicula pelliculosa (Freshwater diatom)): 9.43 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Toxicity to fish : LC50 (Ictalurus punctatus (channel catfish)): 35 mg/l
Exposure time: 96 h
Method: EPA FIFRA 72-1
Remarks: Source: EFSA

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 142.5 mg/l
Exposure time: 48 h
Method: EPA FIFRA 72-2
Remarks: Source: EFSA

Toxicity to algae/aquatic plants : EC50 (Anabaena flos-aquae (cyanobacterium)): 25.7 mg/l
Exposure time: 96 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

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Method: ASTM E 1218-90

Remarks: Source: EFSA

Toxicity to fish (Chronic toxicity) : NOEC: 0.41 mg/l
Exposure time: 35 d
Species: Pimephales promelas (fathead minnow)
Method: EPA FIFRA 72-4
Remarks: Source: EFSA

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2.4 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: EPA FIFRA 72-4
Remarks: Source: EFSA

butan-1-ol, CAS: 71-36-3, EINECS: 200-751-6

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,376 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Source: ECHA

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,328 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Source: ECHA

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata): 225 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Source: ECHA

Toxicity to microorganisms : EC50 (Pseudomonas putida): 4,390 mg/l
Exposure time: 17 h
Method: DIN 38412
Remarks: Source: ECHA

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 4.1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Source: ECHA

12.2 Persistence and degradability

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Biodegradability : Result: Not readily biodegradable.
Biodegradation: ca. 10 %
Related to: CO₂ formation in % of theoretical value
Exposure time: 29 d

SAFETY DATA SHEET

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Method: 92/69/EEC, C.4
Remarks: Source: EFSA

butan-1-ol, CAS: 71-36-3, EINECS: 200-751-6

Biodegradability : Result: Readily biodegradable.
Biodegradation: 92 %
Related to: DOC decrease
Exposure time: 20 d
Method: OECD
Remarks: Source: ECHA

12.3 Bioaccumulative potential

Components:

Trinexapac-ethyl, CAS: 95266-40-3

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 6
Method: Environmental Chemistry 165-4
Remarks: Source: EFSA

Partition coefficient: n-octanol/water : log Pow: -0.29 (25 °C)
Method: OECD Test Guideline 117
Remarks: Source: EFSA

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Environmental fate and pathways : Do not discharge into the drains or waters and do not store on public depositories.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.

SECTION 14: Transport information

14.1 UN number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)
IATA	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trinexapac-ethyl)

14.3 Transport hazard class(es)

ADN	: 9
ADR	: 9
RID	: 9
IMDG	: 9
IATA	: 9

14.4 Packing group

ADN	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

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Labels : 9

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MODAN 250 EC

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2020
1.1	15.11.2020	000000000000102162	Date of first issue: 30.09.2020
		Region: GB	Print Date: 19.05.2021
		Language: EN	

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not listed

REACH - List of substances subject to authorisation (Annex XIV) : Not listed

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not listed

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not listed

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AICS : Not in compliance with the inventory

DSL : This product contains one or several components that are not on the Canadian DSL nor NDSL.

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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SECTION 16: Other information

Sources of key data used to compile the Safety Data Sheet

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H411	: Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

SAFETY DATA SHEET

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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

GB / EN