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OBERON

C0303-C0224-UK

R43 N; R50



scription active mula entification	OBERON. : Spiromesifen : 3-mesityl-2-oxo-1-oxaspiro[4.4]non-3-en-4-yl 3,3-dimethylbutyrate (IUPAC) : C23 H30 O4 : SC (Suspension Concentrate) : CERTIS UK 1b Mills Way Boscombe Down Business Park, Amesbury Wiltshire. SP4 7RX United Kingdom Telephone 1980 676500 Fax 1980 626555 E-mail: certis@certiseurope.co.uk : Agriculture (Insecticide) : 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: 00353 1379 964/379966.	
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ntification		
mical hazards	: The data available does not support any physical or chemical hazard.	
h hazards	: This product is not classified as harmful.	
al hazard	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
on ingredients		
s considered to be ha	azardous and contains hazardous components.	
	: Preparation	
ation	: See chapter 16 for full text of R phrases	
	: Below mentioned is the active component.	
	Value(s) CAS nr EINECS nr EC index CERTIFICATE	
	n hazards al hazard on ingredients s considered to be ha reparation	

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First aid measures	
General	: Remove victim from polluted area. Place the victim in the recovery position. Remove contaminated clothing immediately. Dispose of in a safe manner.
- Inhalation	 Remove victim to fresh air. Keep victim warm. Allow the victim to rest. Immediately get medical attention.
- Ingestion	: Rinse mouth. Do not induce vomiting. Seek medical attention immediately.
- Skin contact	 Change contaminated clothing immediately. If available : After contact with the skin, wash immediately with polyethyleenglyco 400. Otherwise: Wash skin thoroughly with water and soap. Obtain medical attention if symptoms persist.
- Eye contact	 Rinse immediately with plenty of water. After 5 minutes remove contact lenses if present. Rinse again with plenty of water. Continue to rinse with the eyelid wide open for at least 15 minutes. Seek medical attention if irritation develops.
Note to physician	 Treat symptomatically. If a larger quantity is swallowed: Gastric lavage may be effective when performed within 2 hours after ingestion. However, the application of activated charcoal and sodium supahte is always advisable.

Extinguishing media	: Water. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	: Not known
Hazardous thermal (de)composition products	: Harmful and toxic vapours/gases. See also Heading 10 (Stability and reactivity)
Special procedures	: Do not discharge extinguishing waters into the environment. Move containers away from fire areas if it can be done without risk. If possible to remove containers from fire zone, cool them with water spray.
Protection of fire fighters	: Wear a self-contained breathing apparatus. Wear suitable protective clothing, gloves and eye/face protection.
Special exposure hazards	: Do not breathe fumes from fires or vapours from decomposition.

6. Accidental release measures	
Personal precautions	 Avoid contact with spilled product or contaminated surfaces. Do not eat, drink or smoke. See Heading 8.
Environmental precautions	 Prevent entry to sewers and public waters. Notify the authorities if product enters sewers or public waters. Inform the Environmental Agency (emergency tlephone number 0800 - 807060)
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spilled material in sealable containers. Remove according to national or local legislation Clean the polluted area. Do not dump into sewers, on the ground or into any body of water.
After spillage and/or leakage	 Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste isposal, see section 13. Check also for any local site procedures.

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7. Handling and storage		
Handling	 Use only in area provided with appropriate exhaust ventilation. Handle in accordance with good industrial hygiene and safety practise. For personal protection see chapter 8. 	
Technical protective measures	: No special measures required.	
Storage	 Store in dry, cool, well-ventilated area. Store in area between 0°C and 40°C. Protect from freezing. Keep away from food, drink and animal feeding stuffs. Do no allow unauthorized persons to enter. 	
Packaging material	: HDPE (polyethyleen high density).	
Storage away from	: Direct sunlight. Extremely high or low temperatures.	
8. Exposure controls / personal pr	rotection	
Engineering measures	: Provide adequate ventilation.	
Hygiene measures	 Refer to COSHH assessment (control of Substances Hazardous to Health) Amendment Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practible. Refer also to COSHH Essentials. When using, do not eat, drink or smoke. Change contaminated clothing 	
	immediately. Wash clothing before re-using. Wash hands and face after handling thoroughly with soap and water. If necessary take a shower.	
Occupational Exposure Limits	 Spiromesifen : TWA 0.92 mg/mE3 (OES BCS) OES BCS = Interal Bayer CropScience "Occupational Exposure Standard " Glycerine : TWA 10 mg/mE3 (EH40 WEL) 	
Personal protection	Follow all precautions and instructions on the label.	
	: In all other cases the following recommendations would apply:	
- Respiratory protection	: No special protection equipment is required under normal conditions of use. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonable practible steps have been taken to reduce exposure at sources e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.	
- Skin protection	 Suitable protective clothing. Wear coverall and type 6 suit. Wear two layers of clothing where possible. A cotton or cotton/polyester coverall must be worn under the chemical protection clothing and cleaned frequently by an industrial laundry. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer. 	
- 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).	
- Others	: Wash clothing before re-using.	

9. Physical and chemical properties

Appearance	: Suspension concentrate	
Physical state	: Liquid.	
Colour	: Whitish-grey.	
Odour	: Weak , characteristic .	

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pH value	: 4 - 5.5 @ 23°C	
Density [kg/mE3]	: 1050 @ 20 °C	
Solubility in water	: In water, the material forms a suspension.	
Relative vapour density (air=1)	: Not established.	
Flash point [°C]	: > 100	
Boiling point [°C]	: No data available.	
Vapour pressure	: No data available.	
Surface tension	: No data available.	
Ignition temperature [°C]	: 405	
Explosion properties	: No explosive properties.	
. Stability and reactivity		
Stability	: Stable under normal circumstances. See also chapter 7.	
Hazardous decomposition products	: Burning may produce e.g. : Carbon monoxide, Hydrocarbons.	
Hazardous reactions	: None under normal conditions.	
Materials to avoid	: No specific substances.	
Conditions to avoid	: Extremely high or low temperatures. Direct sunlight.	
. Toxicological information		
Rat oral LD50 [mg/kg]	: > 2,500	
Dermal (rat) LD50 [mg/kg]	: > 4,000	
Rat inhalation LC50 [mg/l/4h]	: > 2.759 (highest achievable concentration)	
Dermal irritation (rabbit)	: No skin irritation.	
Eye irritation (rabbit)	: No eye irritation.	
Sensitization	: No sensitization. (OECD 406, Buehler test)) (guinea pig) Sensitizing (OECD 406, Magnusson & Kligman) (guinea pig) (active ingredient)	
. Ecological information		
Ecotoxicity		
LC50 - 96 Bluegill sunfish [mg/l]	: 0.245	
IC50-72H-Algae [mg/l]	: > 6.4	
EC50-48H-Daphnia Magna mg/l	: 68.7	
Disposal considerations		
Waste-disposal procedures	: Remove as chemical waste, according to national or local legislation. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK)	
Contaminated packaging	 Dispose of in a safe manner. According to national or local legislation. 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. 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/o leaflet. 	



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13. Disposal considerations (continued)		
Industrial waste number	: 02 01 08 - Agrochemical waste containing dangerous substances.	
14. Transport information		
- UN No.	3082	
- Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (Spiromesifen solution)	
Land transport (ADR/RID)		
- Class	: 9	
- Packing group	: 111	
- Hazard identification number	: 90	
- Hazard Label(s)	: 9	
- Item number	: Tunnel code : E	
Sea transport (IMO)		
IMDG	: 9	
- Packing group	: III	
- EMS-Nr	: F - A , S - F	
- Proper technical name	: Environmentally hazardous substance, liquid, n.o.s. (Spiromesifen solution)	
IMDG-Marine pollution	: Yes	
Air transport		
- IATA - Class or division	: 9	
- IATA Packing group	: 111	
Additional information	 Environmentally hazardous substance, liquid, n.o.s. (Spiromesifen solution) UK: UN number : 3082 Labels : 9 Packaging group : III Hazard no. : 90 Emergency action code : 3Z Description of the goods: Environmental hazardous substance, liquid, N.O.S (Spiromesifen solution) 	

15. Regulatory information

EU Regulations	
	: This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.
Hazard symbol(s)	: N, Dangerous for the environment.
Warning phrases	
R Phrase(s)	: R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	
S Phrase(s)	: S35 : This material and its container must be disposed of in a safe way. S57 : Use appropriate container to avoid environmental contamination.
Symbol(s)	: Dangerous for the environment.
Great Britain	
	CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS :
	The labelling information below is that which has been approved under ' The

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15. Regulatory information (contine	ued)
	control of Pesticides Regulations 1986' and/or ' Part III of the Food and Environment Protection Act 1985 ' and/or ' Plant Protection Product Regulations 1999 ' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this ' Safety Data Sheet'. : Symbol(s):
	Xi Irritant N Dangerous for the environment
	R-phrase(s):
	R43 May cause sensitization by skin contact R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	S-phrase(s) :
	 S 2 Keep out of reach of children S13 Keep away from food, drink and animal feedingstuffs S24 Avoid contact with skin S35 This material and its container must be disposed of in a safe way S46 If swallowed, seek medical advice immediately and show the container or label. S37 Wear suitable gloves S57 Use appropriate container to avoid environmental contamination
	Exceptional labelling:
	To avoid risks to man and the environment, comply with the instructions for use. Contains spiromesifen. May produce an allergic reaction.
Other information	: WHO-Classification : III Slight hazardous.
16. Other information	
Certis code	: WA
Explanation of R-phrases used in section 3	 R43 : May cause sensitization by skin contact. R50 : Very toxic to aquatic organisms. R53 : May cause long-term adverse effects in the aquatic environment.
Sources of key data used	: - Classification Database ECB - The Pesticide Manual, 13th ed (ISBN 1 901396 12 6) - Certis Europe Expert Team (CEET)

The contents and format of this MSDS are in accordance with EC Commission Directive 93/112/EEC, 99/45/EC, 2001/58/EC and Reach Regulation 1907/2006.

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1b Mills Way Boscombe Down Business Park, Amesbury Wiltshire. SP4 7RX United Kingdom

Trade name(s)

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