

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 SDS Ref.: 64170/64171/64216 Date of issue: 10/25/2018 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifier Product form		: Mixture			
Product name		: GENERATION PAT'			
Product code		: 64170/64171/64216			
Type of product		: Biocidal products (e.g. Disi	nfectants, pest control)		
Product group		: Trade product			
1.2. Relevant identified uses of the substance		•	lvised against		
1.2.1. Relevant ide					
Intended for genera	al public	· Concurrent une	0		
Main use category Use of the substan	ce/mixture	: Rodenticides	: Consumer use		
Function or use cat		: Pesticides, non-agricultural	(Biocides)		
1.2.2. Uses advise			()		
No additional inform					
	ne supplier of the safety da	ta sheet			
Distributor	in the provide the output of the				
Bio Services International Jagershoek 13 8570 Vichte - Belgique-Belgie T 00.32.56.77.24.34 Ma-Vr 8-12u /13-17u - F 00.32.56.77.24.35 bernard@bioservice.be - www.bsi-products.com					
1.4. Emergency Emergency number	telephone number	: B 0032.70.245.245//F 0033.(0)	383 22 50 50//0033 (0)1 40 05	5 48 48//N 003130 274 8888	
Country	Organisation/Company	Address	Emergency number	Comment	
	National Poisons Information				
United Kingdom	Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111		
SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Specific target organ toxicity — Repeated exposure, Category 2 H373 Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412					
	ments : see section 16	and a second second second			
Adverse physicochemical, human health and environmental effects May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.					
2.2. Label eleme					
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)					
Signal word (CLP)		: Warning			
Hazardous ingredients		: difethialone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydronaphthalen-1-yl]- 4- hydroxy-2H-1-benzothiopyran-2-one			
Hazard statements (CLP)		 H373 - May cause damage to organs (blood) through prolonged or repeated exposure (if swallowed). H412 - Harmful to aquatic life with long lasting effects. 			
Precautionary statements (CLP) : P102 - Keep out of reach of children. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P314 - Get medical advice/attention if you feel unwell. P501 - Dispose of contents and container to hazardous or special waste collection point accordance with local, regional, national and/or international regulation.			or special waste collection point, in		

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2.3. Other hazards

This substance/mixture meets the PBT criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

0.2. mixture3			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
difethialone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)- 1,2,3,4-tetrahydronaphthalen-1-yl]- 4-hydroxy-2H-1- benzothiopyran-2-one	(CAS-No.) 104653-34-1 (EC Index-No.) 607-717-00-3	< 0.1	Repr. 1B, H360D Acute Tox. 1 (Inhalation), H330 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Oral), H300 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
difethialone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)- 1,2,3,4-tetrahydronaphthalen-1-yl]- 4-hydroxy-2H-1- benzothiopyran-2-one	(CAS-No.) 104653-34-1 (EC Index-No.) 607-717-00-3	(0.002 = <c 0.02)="" 2,="" <="" h373<br="" re="" stot="">(0.003 =<c 100)="" 1b,="" <="" h360d<br="" repr.="">(0.02 =<c 1,="" 100)="" <="" h372<="" re="" stot="" td=""></c></c></c>	

Full text of H-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Inhalation unlikely.	
First-aid measures after skin contact	: Call a physician immediately. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash skin with plenty of water.	
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. If eye irritation persists: Get medical advice/attention. Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth out with water. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after ingestion	: Blood in vomit. Ingestion may cause nausea and vomiting.	

4.3. Indication of any immediate medical attention and special treatment needed

Contains anticoagulant ingredient . For humans or animals ingesting bait and/or showing obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K1

intramuscularly or orally. In severe cases, blood transfusions may be needed.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam.	
5.2. Special hazards arising from the substa	ince or mixture	
Reactivity in case of fire	: Product is not explosive.	
Hazardous decomposition products in case of fire	: None under normal conditions.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Ventilate spillage area. Do not breathe dust.	

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6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment. Do not allow to en	ter drains or water courses. Notify authorities if liquid enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
For containment	: Using a clean shovel, put the material in a dry container and cover without compressing it.	
Methods for cleaning up	: Mechanically recover the product. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe dust/fume/gas/mist/vapours/spray.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Keep only in original container. Store in a well-ventilated place. Keep cool.	
Incompatible products	: Keep away from food, drink and animal feeding stuffs.	
7.3. Specific end use(s)		

Pesticides, non-agricultural (Biocides).

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available
8.2. Exposure controls
Appropriate engineering controls:
Ensure good ventilation of the work station.
Hand protection:
Protective gloves
Eye protection:
Not applicable. Safety glasses
Skin and body protection:
Not applicable
Respiratory protection:
Not applicable
Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: Blue.	
Odour	: characteristic.	
Odour threshold	: No data available	
рН	: ≈ 7.21	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	

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Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: 6.29
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: Not applicable
9.2. Other information	

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
No additional information available
10.6 Hazardous decomposition products

10.6. Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
GENERATION PAT'	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Skin corrosion/irritation	: Not classified
	pH: ≈ 7.21
Serious eye damage/irritation	: Not classified
	pH: ≈ 7.21
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (blood) through prolonged or repeated exposure (if swallowed).
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.

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GENERATION PAT'	
LC50 fish 1	≈ 51 µg/l
EC50 Daphnia 1	≈ 4.4 µg/l
EC50 72h algae (1)	≈ 65 mg/l
NOEC chronic fish	≈ 22 ppm
NOEC chronic algae	≈ 32 ppm
12.2. Persistence and degradability No additional information available	
12.3. Bioaccumulative potential	
GENERATION PAT'	
BCF fish 1	39974 mg/kg
	6.29
Log Pow	0.29
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB assessment	
GENERATION PAT	
This substance/mixture meets the PBT criteria of REA	ACH regulation, annex XIII
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
waste treatment methous	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	Mart and Parable
UN-No. (ADR)	: Not applicable : Not applicable
UN-No. (IMDG) UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	·····
Transport hazard class(es) (IMDG)	: Not applicable
IATA	· · · · · · · · · · · · · · · · · · ·
Transport hazard class(es) (IATA)	: Not applicable
ADN	·····
Transport hazard class(es) (ADN)	: Not applicable
RID	·····
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

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according to Regulation (EC) No. 1907/2006 (RE. 14.5. Environmental hazards	ACH) with its amendment Regulation (EC) No. 453/2010	
Dangerous for the environment	: No	
Marine pollutant	: No	
Other information	: No supplementary information available	
14.6. Special precautions for user		
Overland transport		
Not applicable		
Transport by sea		
Not applicable		
Air transport		
Not applicable		
Inland waterway transport		
Not applicable		
Rail transport		
Not applicable		
14.7. Transport in bulk according to	Annex II of Marpol and the IBC Code	
Not applicable		

SEC	1 ION 1	5: Reg	julatory	y information	
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

Germany

Connary	
Reference to AwSV	: Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: difethialone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydronaphthalen-1-yl]- 4- hydroxy-2H-1-benzothiopyran-2-one is listed
15.2. Chemical safety assessment	
No chemical safety assessment has been carried out	

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1	
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Repr. 1B	Reproductive toxicity, Category 1B	

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Specific target organ toxicity — Repeated exposure, Category 1
Specific target organ toxicity — Repeated exposure, Category 2
Fatal if swallowed.
Fatal in contact with skin.
Fatal if inhaled.
May damage the unborn child.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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