

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. Disinfectants, pest control)

Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use
Use of the substance/mixture : Rodenticides

Function or use category : Pesticides, non-agricultural (Biocides)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

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

<u>bernard@bioservice.be</u> - <u>www.bsi-products.com</u>

1.4. Emergency telephone number

Emergency number : B 0032.70.245.245//F 0033.(0)383 22 50 50//0033.(0)1.40.05.48.48//N 003130 274 8888.

Cou	ntry	Organisation/Company	Address	Emergency number	Comment
Unite	Ü		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

Full text of H statements : see section 16

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 elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

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

H3/3 - May cause damage to or 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, in

accordance with local, regional, national and/or international regulation.

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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

3.2. Mixtures

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 con	centration limits

benzothiopyran-2-one Full text of H-statements: see section 16

difethialone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)-

1,2,3,4-tetrahydronaphthalen-1-yl]- 4-hydroxy-2H-1-

N 4· First aid	

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.

(CAS-No.) 104653-34-1

(EC Index-No.) 607-717-00-3

: Call a physician immediately. After contact with skin, take off immediately all contaminated First-aid measures after skin contact

clothing, and wash immediately with plenty of water. Wash skin with plenty of water.

(0.002 =<C < 0.02) STOT RE 2, H373

(0.003 =<C < 100) Repr. 1B, H360D

(0.02 =<C < 100) STOT RE 1, H372

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if First-aid measures after eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

: Do NOT induce vomiting. Rinse mouth out with water. Call a POISON CENTER/doctor if

advice/attention. Rinse eyes with water as a precaution.

First-aid measures after ingestion 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 substance 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.

: Ventilate spillage area. Do not breathe dust. **Emergency procedures**

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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 enter 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

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

: ≈ 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

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

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ENERGHOW FAI	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Not classified

pH: ≈ 7.21 Not classif

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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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
	Log Pow	6.29

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 REACH 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.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
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

KID

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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14.5. Environmental hazards

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

SECTION 15: Regulatory information

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

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. BlmSchV (Hazardous Incident Ordinance)

: difethialone (ISO); 3-[3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydronaphthalen-1-yl]- 4-

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 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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0707.05.4	
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H412	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