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GEM GRANULES

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

1.1 Product identifier

Trade name : GEM GRANULES

Authorisation number : MAPP19182

Active substance : Propyzamide (4 %)
EC No.: 245-951-4
CAS No.: 23950-58-5
IUPAC Name: 3,5-dichloro-N-(1,1-dimethylprop-2-ynyl)benzamide

Substance No. : 300000000614

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

Use of the Substance/Mixture : Herbicide for professional use.

1.3 Details of the supplier of the safety data sheet

Address : Agrigem
Gem House, Riverside Enterprise Park,
Skellingthorpe Road, Saxilby,
Lincoln LN1 2FU

Telephone : 01522 246491

E-mail address Contact Point : sales@agrigen.co.uk

1.4 Emergency telephone number

Please call the local emergency number.
Emergency number in Belgium (24h/24, 7d/7): +32 11 69 79 80

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Carcinogenicity, Category 2
Chronic aquatic toxicity, Category 2

H351: Suspected of causing cancer.
H411: Toxic to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (Regulation (EC) No. 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements : P201 Obtain special instructions before use.
Prevention:
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

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

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS No. EC No. Index No. Registration No.	Classification (Regulation (EC) No. 1272/2008) M-Factor/SCL/ATE	Conc. [%]
Propyzamide	23950-58-5 245-951-4 616-055-00-4 -	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	4
Substances with a workplace exposure limit			
Methanol	67-56-1 200-659-6 603-001-00-X -	Flam. Liq. 2; H225 Acute Tox. 3; H301, H311, H331 STOT SE 1; H370 SCL STOT SE 1: >= 10 % SCL STOT SE 2: >= 3 % SCL STOT SE 2: < 10 %	<= 0.015
Calcium carbonate	471-34-1 207-439-9 - -	Non-hazardous	>= 92
Kaolin	1332-58-7 310-194-1 - -	Non-hazardous	>= 0.5 - <= 1

For the full text of the hazard statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.
- If inhaled: : Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or a doctor if you feel unwell.
- In case of skin contact: : Take off contaminated clothing.
Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before reuse.
- In case of eye contact: : 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.

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If swallowed: : Rinse mouth.
Call a POISON CENTER or a doctor.

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 : For specialist advice physicians should contact the poisons information service.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water
Carbon dioxide (CO₂)
Dry powder
Polyvalent foam

Unsuitable extinguishing media : Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see Section 10).
Exposure to decomposition products may be a hazard to health.
Do not use a solid water stream as it may scatter and spread fire.

5.3 Advice for firefighters

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

Other information : Standard procedure for chemical fires.
In the event of fire and/or explosion do not breathe fumes.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

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Ensure adequate ventilation.
Refer to protective measures listed in Section 7 and 8.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
Shovel into suitable container for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.4 Reference to other sections

See Section 8 for exposure controls/personal protection. See Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle with care.
Take care to avoid waste and spillage when weighing, loading and mixing the product.
Smoking, eating and drinking should be prohibited in the application area.
Never mix concentrates directly.
Avoid inhalation, ingestion and contact with skin and eyes.
Avoid formation of dust and aerosols.
For personal protection see Section 8.
Avoid exceeding of the given occupational exposure limits (see Section 8).

Advice on protection against fire and explosion : Use explosion-proof equipment.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store between 0 °C and 40 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
Store in original container.
Keep away from food, drink and animal feeding stuffs.
Keep out of reach of children.

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7.3 Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component	CAS No.	Form of exposure	Value type	Control parameters	Basis
Methanol	67-56-1	Not specified	TWA	200 ppm 260 mg/m ³	IE OEL
Methanol	67-56-1	Not specified	TWA	200 ppm 266 mg/m ³	GB EH40
Methanol	67-56-1	Not specified	STEL	250 ppm 333 mg/m ³	GB EH40
Calcium carbonate	471-34-1	Inhalable aerosol	TWA	10 mg/m ³	GB EH40
Calcium carbonate	471-34-1	Respirable aerosol	TWA	4 mg/m ³	GB EH40
Kaolin	1332-58-7	Respirable aerosol	TWA	2 mg/m ³	GB EH40
Kaolin	1332-58-7	Not specified	TWA	2 mg/m ³	IE OEL

8.2 Exposure controls

Personal protective equipment

- Respiratory protection :
- : In the case of vapour formation use a respirator with an approved filter.
 Recommended Filter type:
 ABEK
 - : In the case of dust or aerosol formation use respirator with an approved filter.
 Recommended Filter type:
 P2FFP2

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- Hand protection : Protective gloves complying with EN 374.
- Eye protection : Safety glasses with side-shields conforming to EN 166.
- Skin and body protection : Long-sleeved clothing.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Store personal protection equipment in a clean location away from the work area.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Keep away from food and drink.
Wash hands before eating, drinking, or smoking.
- Protective measures : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.
Always have on hand a first-aid kit, together with proper instructions.

Environmental exposure controls

- General advice : Discharge into the environment must be avoided.
Prevent further leakage or spillage.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.
- Soil : Avoid subsoil penetration.
- Water : Do not flush into surface water or sanitary sewer system.
Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : Granules
- Colour : Beige
- Odour : Musty
- Flash point : Not applicable
- Ignition temperature : > 400 °C

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Lower explosion limit	: No data available
Upper explosion limit	: No data available
Explosive properties	: Not explosive
Flammability	: The product is not highly flammable.
Oxidising properties	: Not oxidising
Decomposition temperature	: No data available
pH	: 8 - 9 Conc.: 1 % (as aqueous solution)
Melting point/melting range	: No data available
Boiling point/boiling range	: Not applicable
Vapour pressure	: No data available
Density	: 1.5 g/cm ³
Relative density	: No data available
Bulk density	: 1.5 kg/m ³
Solubility in water	: No data available
Partition coefficient n-octanol/water	: Log Pow: 3.27 at pH 7 at 25 °C (Active substance)
Kinematic viscosity	: Not applicable
Relative vapour density	: Not applicable

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.
Other hazardous decomposition products may be formed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity

Component

Acute oral toxicity
Propyzamide : LD50 Oral: > 5,000 mg/kg
23950-58-5 Species: Rat
Remarks: Single dose

Component

Acute inhalation toxicity
Propyzamide : LC50: > 2.1 mg/l
23950-58-5 Exposure time: 4 h

Component

Acute dermal toxicity
Propyzamide : LD50 Dermal: > 2,000 mg/kg
23950-58-5 Species: Rat
Remarks: 24 h

Skin corrosion/irritation

Component

Skin irritation
Propyzamide : Species: Rabbit

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23950-58-5 Results: Mild skin irritation
 Exposure time: 4 h

Serious eye damage/eye irritation

Component

Eye irritation
Propyzamide : Species: Rabbit
23950-58-5 Results: No eye irritation
 Remarks: Single dose

Respiratory or skin sensitization

Component

Sensitisation
Propyzamide : Test type: Maximisation Test
23950-58-5 Species: Guinea pig
 Results: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Component

Propyzamide : Animal testing did not show any mutagenic effects.
23950-58-5

Carcinogenicity

Propyzamide : Species: Rat
23950-58-5 Exposure time: 2 yr
 NOAEL: 8.5 mg/kg bw/day

Reproductive toxicity

Component

Reproductive toxicity - Assessment

Propyzamide : Experiments have shown reproductive toxicity effects in male
23950-58-5 and female laboratory animals.

Specific target organ toxicity - single exposure

Component

Propyzamide : Remarks: No data available
23950-58-5

Specific target organ toxicity - repeated exposure

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Component

Propyzamide : Remarks: No data available
23950-58-5

Aspiration hazard

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information

Component

Propyzamide
23950-58-5

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Component

Toxicity to fish

Propyzamide : LC50: > 4.7 mg/l
23950-58-5 Exposure time: 96 h
Species: Oncorhynchus mykiss (Rainbow trout)

Component

Toxicity to daphnia and other aquatic invertebrates.

Propyzamide : EC50: > 12 mg/l
23950-58-5 Exposure time: 48 h
Species: Daphnia magna (Water flea)

Component

Toxicity to algae and aquatic plants

Propyzamide : ErC50: 2.88 mg/l
23950-58-5 Exposure time: 72 h
Species: Selenastrum capricornutum

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ErC50: 0.021 mg/l
Exposure time: 14 d
Species: Myriophyllum spicatum

12.2 Persistence and degradability

Component

Stability in soil

Propyzamide : Percentage dissipation: 50 % (DT50: 195.2 d)
23950-58-5

12.3 Bioaccumulative potential

Component

Bioaccumulation

Propyzamide : Species: Fish
23950-58-5 Bioconcentration factor (BCF): 48

Component

Partition coefficient n-octanol/water

Propyzamide : Log Pow: 3.27 (25 °C)
23950-58-5 pH: 7
Remarks: (Active substance)

12.4 Mobility in soil

Component

Distribution among environmental compartments

Propyzamide : Medium: Soil
23950-58-5 Koc: 1626
Koc unit: mL/g

12.5 Results of PBT and vPvB assessment

Product

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

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12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product

Additional ecological information : No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.
Dispose of in accordance with local regulations.
The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Triple rinse containers.
Do not re-use empty containers.
Store containers and offer for recycling of material when in accordance with the local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3077
IMDG : UN 3077
IATA : UN 3077

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Propyzamide)

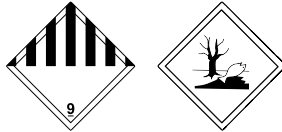
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Propyzamide)

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Propyzamide)

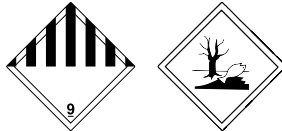
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14.3 Transport hazard class(es)

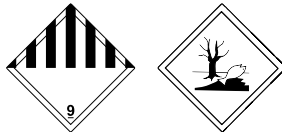
ADR : 9



IMDG : 9



IATA : 9



14.4 Packing group

ADR
Packing group : III
Hazard identification No : 90
Labels : 9
Tunnel restriction code : (-)
Limited quantity : 5.00 KG

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

IATA (Cargo)
Packing instruction (cargo aircraft) : 956
Maximum quantity : 400.00 KG
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous dangerous substance or article

IATA (Passenger)
Packing instruction (passenger aircraft) : 956
Maximum quantity : 400.00 KG
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous dangerous substance or article

14.5 Environmental hazards

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ADR

Environmentally hazardous : Yes

IATA (Passenger)

Environmentally hazardous : Yes

IATA (Cargo)

Environmentally hazardous : Yes

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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Major Accident Hazard Legislation : Legislation on the control of major-accident hazards involving dangerous substances
Seveso E2

SEVESO

SEVESO category: Hazardous to the Aquatic Environment in Category Chronic 2

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Full text of hazard statements referred to under Section 2 and 3.

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.

Full text of other abbreviations

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
ATE – Acute toxicity estimate; BCF - Bioconcentration factor; bw – Body weight; EC number –

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European Community number; ECx – Concentration associated with x % response; EmS – Emergency Schedule; ErCx – Concentration associated with x % growth rate response; GLP – Good Laboratory Practice; IATA – International Air Transport Association; IC50 – Half maximal inhibitory concentration; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organization; LC50 – Lethal Concentration to 50 % of a test population; LD50 – Lethal Dose to 50 % of a test population (Median Lethal Dose); M-factor – Multiplying factor; N.O.S. – Not Otherwise Specified; NO(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; OECD – Organization for Economic Co-operation and Development; OEL – Occupational exposure limit; PBT – Persistent, Bioaccumulative and Toxic substance; SCL – Specific Concentration Limit; TWA – Time-weighted average; UFI – Unique formula identifier; UN – United Nations; vPvB – Very Persistent and Very Bioaccumulative

Other information

Other information : Revision according to COMMISSION REGULATION (EU) 2020/878.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.