

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

1.1. Product identifier

Product form : Mixture
Product name : BASAMID
Product code : KST 032 C1118
Type of formulation : GR (Granule)
Active Ingredient : Dazomet

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

1.2.1. Relevant identified uses

Main use category : Plant protection product for professional use. Agriculture
Use of the substance/mixture : Insecticide
Herbicide
Fungicide
Nematicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier:

KANESHO SOIL TREATMENT SPRL/BVBA
Avenue de Tervueren 270
1150 Brussels
Belgium.

Distributor:

Suite 5, 3 Riverside
Granta Park
Great Abington
Cambridgeshire CB21 6AD
United Kingdom
Tel: +44 (0)845 373 0305
Fax: +44 (0)1223 891210
Email: certis@certiseurope.co.uk
Website: www.certiseurope.co.uk

1.4. Emergency telephone number

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.
For further advice for medical professionals:
The National Poisons Information Service: +44 (0) 870 600 6266.
For further advice for veterinary surgeons: +44 (0) 20 7635 9195
Dublin - National Poisons Information Centre, Beaumont Hospital, Dublin 9:
Available from 8 am to 10 pm - 7 days: +353 (01) 809 2166
Available 24hrs: +353 (01) 809 2566

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral) H302

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1 H317

STOT SE 3 H335

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Hazard statements (CLP)

: H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P261 - Avoid breathing dust.
P262 - Do not get in eyes, on skin, or on clothing.
P280 - Wear protective gloves, protective clothing, eye protection/face protection.
P284 - Wear respiratory protection.
P312 - Call a POISON CENTER, doctor, physician if you feel unwell.
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.

EUH phrases

: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	% (w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dazomet	(CAS No.) 533-74-4 (EC no) 208-576-7	>70	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Avoid contact with skin, eyes and clothing.
 Remove contaminated clothing and shoes.
 If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice (show the label where possible).
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes.
 Seek medical attention if ill effect develops.
- 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 irritation persists, consult an eye specialist.
- First-aid measures after ingestion : Wash out mouth with plenty of water.
 Drink plenty of water.
 Do not induce vomiting.
 Never give anything by mouth to an unconscious person.
 Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Reactive Airway Dysfunction Syndrome (RADS), and potential to aggravate pre-existing asthma. Nose and throat irritation. Shortness of breath. Chest tightness. Cough. Wheezing. Headache. Dizziness.
 Systemic effects like hepatotoxicity (increase of transaminases) are possible, as well as gastrointestinal dysfunction (nausea, irritation, vomiting) and more general symptoms (headache, dizziness)
- Symptoms/injuries after skin contact : Dazomet may cause bullous eruption, sore itching, erythema, oedema and scaling.
- Symptoms/injuries after eye contact : Eye irritation.
- Symptoms/injuries after ingestion : Nausea. Irritation. Vomiting. Headaches. Dizziness.

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

Treat symptomatically. No specific antidote known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water fog.
 Foam.
 Dry extinguishing media.

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of combustion: CO₂/CO, H₂O, N₂/NO_x and SO₂ will be generated.
Reactivity : No reactivity with packaging materials after two years storage at ambient temperature.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.
Fight fire from safe distance and protected location.
Do not breathe fumes.
Cool closed containers exposed to fire with water spray.
If possible, take the containers out of dangerous zone.
Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers or streams.

Protection during firefighting : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection.
Wear a self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection.
Wear a self contained breathing apparatus.

Emergency procedures : Evacuate area.
Ensure adequate ventilation.
Avoid direct contact with the substance.
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify the authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible.
Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Avoid dust formation.
Remove as chemical waste, according to national or local legislation.
In the event of major spillage: Contact an expert.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Read label before use.
Ensure thorough ventilation of stores and work areas.
Protect against moisture.
Avoid breathing dust.. Dust can form an explosive mixture with air.
Prevent electrostatic charge. Sources of ignition should be kept clear.
Use only outdoors or in a well-ventilated area.
Avoid contact with eyes, skin and clothes.
Wear suitable protective clothing, gloves, eye/face protection and respiratory protection.

Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace.
Do not drink, eat or smoke in the workplace.
Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from sources of ignition.
Keep in original containers, tightly closed.
Keep locked up and out of the reach of children.
Protect against moisture.
Keep away from heat and direct sunlight.
Keep away from food, drink and animal feeding stuffs.
Keep in a frost free environment.
Keep in a dark and dry place.

Maximum storage period : 24 months

Storage temperature : -10 °C - 40 °C

Storage area : Ensure adequate ventilation.

7.3. Specific end use(s)

Herbicide. Insecticide. Nematicide. Fungicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Not established for the product. Use adequate exhaust ventilation to keep airborne concentration to a minimum.

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Make available washing face/hands equipments.
Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.

Materials for protective clothing : Chemical resistant protective clothing. Impervious protective clothing.

Hand protection : EN 374 also with prolonged, direct contact (recommended: protective index 6, corresponding > 480 minutes of permeation time according to EN 374) e.g. nitrile rubber (0,4 mm), chloroprene rubber (0,5 mm), polyvinylchloride (0,7 mm) and other.

Eye protection : Tightly fitting safety goggle (EN 166)

Skin and body protection : Protective clothing with long sleeves, gloves and boots.

Respiratory protection : Wear approved respiratory protection equipment (A1P2 combi-filter)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granules.

Colour : White.

Odour : smell of fish.

pH : 7,2

pH solution : 1 %

Melting point (dazomet) : 105 °C

Freezing point : No data available

Initial boiling point (dazomet)	: Decomposition before boiling
Flash point	: Not applicable.
Decomposition temperature	: 150 °C
Flammability (solid, gas)	: Not highly flammable.
Vapour pressure (Dazomet)	: $2,1 \times 10^{-3}$ Pa (25 °C)
Relative vapour density at 20 °C	: Not applicable.
Density	: 1,34 g/cm ³ (20 °C)
Solubility (Dazomet)	: Water: 3,5 g/l (20 °C)
Log Pow (Dazomet)	: 0,63 (20 °C)
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: No explosive properties.
Oxidising properties	: No oxidising properties.
Explosive limits	: Not relevant.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity with packaging materials after two years storage at ambient temperature.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Contact with water or moisture liberates toxic gases.

Dust explosion hazard: The substance itself is not considered to be an explosive due to its chemical composition. The potential for dust explosion hazard was not evaluated but it is mentioned as a precautionary measure.

10.4. Conditions to avoid

Contact with water or moisture liberates toxic gases.

10.5. Incompatible materials

Water.

10.6. Hazardous decomposition products

Methyl isothiocyanate (MITC). Exposure to moisture induces the decomposition of dazomet into methyl isothiocyanate. Methyl isothiocyanate is toxic by inhalation and if swallowed, irritant to eyes and respiratory system, corrosive and sensitizing by skin contact.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Dazomet (533-74-4)	
LD ₅₀ oral rat	596 mg/kg (males) 415 mg/kg (females)
LD ₅₀ dermal rat	>2000 mg/kg
LC ₅₀ inhalation rat	>8,4 mg/L (males) 7,3 mg/L (females)

Skin corrosion/irritation	: Based on human-case studies, the product causes skin irritation.
Serious eye damage/irritation	: Based on human-case studies, the product causes serious eye irritation.
Respiratory or skin sensitisation	: Based on human-case studies, the product may cause an allergic skin reaction.
Germ cell mutagenicity	: Not mutagenic (dazomet active ingredient)
Carcinogenicity	: Not carcinogenic (Rat, mouse; 2 years)
Reproductive toxicity	: Not classified (No reproductive toxicant.)

Specific target organ toxicity (single exposure) : May cause respiratory irritation.
 Specific target organ toxicity (repeated exposure) : Not classified
 Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

BASAMID	
LC ₅₀ Fishes	0,3 mg/l (96h)
EC ₅₀ Daphnia	0,427 mg/l (48h)
ErC ₅₀ Algae (<i>Pseudokirchneriella subcapitata</i>)	0,59 mg/l (72h)
E _b C ₅₀ Algae (<i>Pseudokirchneriella subcapitata</i>)	0,16 mg (72h)
LD ₅₀ Bird (<i>Colinus virginianus</i>)	498 mg/kg
LC50 Earthworm (<i>Eisenia foetida</i>)	6,7 mg/kg (14d)

Acute honey bee: Not relevant. No exposure expected due to the specific application of the product according to label.

Activated sludge respiration inhibition: EC₅₀ (30 min) = ca. 160 mg/L

12.2. Persistence and degradability

Dazomet		
Half-life	Method	Evaluation
Soil	Field and lab studies	DT ₅₀ = < 2 days
Air	Atkinson method of calculation	DT ₅₀ = 0,85 hours
Water/sediment	Laboratory study	DT ₅₀ (whole system) = 0,4-0,63 days

Not readily biodegradable (dazomet)

12.3. Bioaccumulative potential

Dazomet (533-74-4)	
Log Pow	0,63 (20 °C)

Dazomet (533-74-4)	
Log Pow	0,63

12.4. Mobility in soil

Dazomet (533-74-4)	
Surface tension (20°C, 1,0% w/w)	69.9 mN/m
Log K _{oc}	K _{oc} = 260 mL/g

Dazomet (533-74-4)	
Mobility in soil	Potential risk for contamination of groundwater by MITIC. To protect groundwater, do not apply the product more than once every 3 years (EU Directive 2011/53/EU)

12.5. Results of PBT and vPvB assessment

No relevant.

12.6. Other adverse effects

No specific adverse effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
 Waste treatment methods : Disposal through controlled incineration or authorised waste dump.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3077

14.2. UN proper shipping name

Proper Shipping Name : Environmentally hazardous substance, solid, N.O.S (Contains DAZOMET)

Transport document description : UN 3077 Environmentally hazardous substance, solid, N.O.S (Contains DAZOMET), 9, III

14.3. Transport hazard class(es)

Class (UN) : 9

Hazard labels (UN) : 9



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :

Marine pollutant



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Tunnel restriction code : E

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Other information

Data sources : Supplier Safety Data Sheet. BASAMID of Kanesho Soil Treatment. Version 6.0. Revision date: march, 2016.

Full text of H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects