

**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 1118  
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  
Boulevard de la Woluwe, 60  
1200 Brussels  
Belgium  
Tel : +32 (0)2 763 4058  
[info@kaneshost.be](mailto:info@kaneshost.be)

Distributor:

CERTIS UK  
1 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](mailto:certis@certiseurope.co.uk)  
Website: [www.certiseurope.co.uk](http://www.certiseurope.co.uk)

**1.4. Emergency telephone number**

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.  
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: 0035 3 137 99 64/379966.  
For further advice for veterinary surgeons: 020 7635 9195.

## 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

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22

Xi; R36/38

Xi; R43

N; R50/53

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

### 2.2. Label elements

#### Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols



Xn - Harmful

N - Dangerous for the environment

R-phrases

- : R22 - Harmful if swallowed.  
R36/38 - Irritating to eyes and skin.  
R43 - May cause sensitisation by skin contact.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

- : S2 - Keep out of the reach of children.  
S13 - Keep away from food, drink and animal feedingstuffs.  
S20/21 - When using do not eat, drink or smoke.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S35 - This material and its container must be disposed of in a safe way.  
S36/37 - Wear suitable protective clothing and gloves.  
S42 - During fumigation/spraying wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer).  
S46 - If swallowed, seek medical advice immediately and show this container or label.  
S57 - Use appropriate container to avoid environmental contamination.

**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 suitable disposal site in accordance with local and national regulations.

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                      | %    | Classification according to Directive 67/548/EEC  |
|---------|---|------|---|
| Dazomet | (CAS No.) 533-74-4<br>(EC no) 208-576-7 | > 70 | Xn; R22<br>Xi; R36/37/38<br>Xi; R43<br>N; R50/53  |
| Name    | Product identifier                      | %    | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
| Dazomet | (CAS No.) 533-74-4<br>(EC no) 208-576-7 | >70  | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of R-, 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). Nose and throat irritation. Shortness of breath.  
Chest tightness. Cough. Wheezing. 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 spray  
Dry chemical powder  
Alcohol resistant foam  
Carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Jet of water.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : In case of combustion: CO<sub>2</sub>/CO, H<sub>2</sub>O, N<sub>2</sub>/NO<sub>x</sub> and SO<sub>2</sub> 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.
- 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, mist or spray. 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**

No additional information available

**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.

Personal protective equipment : Combined gas/dust mask with filter type A1P2. Protective clothing. Gloves. Safety glasses.



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.

**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.                  |
| Odour threshold                            | : No data available               |
| pH   | : 7.2                             |
| pH solution                                | : 1 %                             |
| Relative evaporation rate (butylacetate=1) | : No data available               |
| Melting point                              | : 105 °C                          |
| Freezing point                             | : No data available               |
| Boiling point                              | : No data available               |
| Flash point                                | : No data available               |
| Self ignition temperature                  | : No data available               |
| 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           | : No data available               |
| Relative density                           | : No data available               |
| Density                                    | : 1.34 g/cm <sup>3</sup> (20 °C)  |
| Solubility (Dazomet)                       | : Water: 3.5 g/l (20 °C)          |
| Log Pow (Dazomet)                          | : 0.63 (20 °C)                    |
| Log Kow                                    | : No data available               |
| Viscosity, kinematic                       | : No data available               |
| Viscosity, dynamic                         | : No data available               |
| Explosive properties                       | : No explosive properties.        |
| Oxidising properties                       | : No oxidising properties.        |
| Explosive limits                           | : No data available               |

## 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.

### 10.4. Conditions to avoid

Contact with water or moisture liberates toxic gases.

### 10.5. Incompatible materials

Water.

### 10.6. Hazardous decomposition products

Methylisothiocyanate is formed in contact with water.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

| <b>BASAMID</b>                  |                   |
|---------------------------------|-------------------|
| LD <sub>50</sub> oral rat       | 415 - 596 mg/kg   |
| LD <sub>50</sub> dermal rat     | > 2000 mg/kg      |
| LC <sub>50</sub> inhalation rat | 7.3 - 8.4 mg/l/4h |

|  |  |
|--|--|
| Skin corrosion/irritation                          | : Causes skin irritation.<br>pH: 7.2         |
| Serious eye damage/irritation                      | : Causes serious eye irritation.<br>pH: 7.2  |
| Respiratory or skin sensitisation                  | : May cause an allergic skin reaction.       |
| Germ cell mutagenicity                             | : Not mutagenic                              |
| Carcinogenicity                                    | : Not carcinogenic.                          |
| 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 <sub>50</sub> Fishes  | 0.3 mg/l (96h)   |
| EC <sub>50</sub> Daphnia   | 0.427 mg/l (48h) |
| ErC <sub>50</sub> Algae ( <i>Pseudokirchneriella subcapitata</i> ) | 0.59 mg/l (72h)  |

### 12.2. Persistence and degradability

| Dazomet        |                                |  |
|----------------|--------------------------------|--|
| Half-life      | Method                         | Evaluation                                     |
| Soil           | Field and lab studies          | DT <sub>50</sub> = < 2 days                    |
| Air            | Atkinson method of calculation | DT <sub>50</sub> = 0.85 hours                  |
| Water/sediment | Laboratory study               | DT <sub>50(whole system)</sub> = 0.4-0.63 days |

Not readily biodegradable (dazomet)

### 12.3. Bioaccumulative potential

| BASAMID |                        |
|---------|------------------------|
| Log Pow | 0.63 (20 °C - dazomet) |

| Dazomet (533-74-4) |      |
|--------------------|------|
| Log Pow            | 0.63 |

### 12.4. Mobility in soil

| BASAMID         |                |
|-----------------|----------------|
| Surface tension | 69.9 mN/m      |
| Log Koc         | Koc = 260 mg/l |

| Dazomet (533-74-4) |   |
|--------------------|---|
| Mobility in soil   | Do not apply the product more than once every 3 years |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## 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

Classification code (UN) : M7

Special provision (ADR) : 274, 335, 601

Transport category (ADR) : 3

##### 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 4.0. Revision date: january 18, 2013.

Indication of changes :

| Change date | Previous Version | Section | Changed Item   | Change | Comments |
|-------------|------------------|---------|--|--------|----------|
| 16/12/2013  | 1.0              | 2       | Classification and labelling according to Directive 67/548/EEC or 1999/45/EC R38, R43, S26, S35,S42,S57. | added  |          |

Full text of R-, 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   |
| R22                 | Harmful if swallowed.  |
| R36/37/38           | Irritating to eyes, respiratory system and skin.   |
| R43                 | May cause sensitisation by skin contact.   |
| R50/53              | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| N                   | Dangerous for the environment  |
| Xi                  | Irritant   |
| Xn                  | Harmful  |

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.*