



MENADIONA

SAFETY DATA SHEET

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Revised edition no : 3

Date : 6 / 5 / 2014

Supersedes : 8 / 11 / 2013

NITROFURAZONE

3009

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : NITROFURAZONE
Product code : 3009

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

Use : Active ingredient for human, veterinary drugs and medicated feeds, premixes and premixtures.

1.3. Details of the supplier of the safety data sheet

Company identification : MENADIONA, S.L
Pol. Industrial Mas Puigvert, s/n
08389 Palafolls - Barcelona -SPAIN-
Tel.: (+34) 93 764 07 11
Fax: (+34) 93 764 07 25
E-mail: she@menadiona.com

1.4. Emergency telephone number

Phone nr : (+34) 93 764 07 11

2. Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Classification EC 67/548 or EC 1999/45

Classification : Xn; R22
R43

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words : Warning
Hazard statements : H302 : Harmful if swallowed.
H317 : May cause an allergic skin reaction.

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2. Hazards identification (continued)

Precautionary statements

- **Prevention**
 - : P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
 - P280: Wear protective gloves.
 - P264: Wash thoroughly after handling.
- **Response**
 - : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 - P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
 - P333+P313: If skin irritation or rash occurs : Get medical advice.
- Contains**
 - : Hydrazinecarboxamide, 2-[(5-nitro-2-furanyl) methylene]

2.3. Other hazards

- Other hazards** : None under normal conditions.

3. Composition/information on ingredients

- Substance / Preparation** : Hydrazinecarboxamide, 2-[(5-nitro-2-furanyl) methylene]
CAS No :59-87-0
EC No :200-443-1
Annex No :---
REACH Ref. :---
Substance.
- Hazardous component(s)** : This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Hydrazinecarboxamide, 2-[(5-nitro-2-furanyl) methylene]	:	59-87-0	200-443-1	----	----	Xn, R22 R43 Acute Tox. 4 (oral) Skin Sens. 1

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

- Inhalation** : Assure fresh air breathing. Allow the victim to rest.
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Get medical advice. If skin irritation or rash occurs : Wash with plenty of soap and water. IF ON SKIN : Specific treatment (see on this label).
- Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion** : Obtain emergency medical attention.
IF SWALLOWED : Rinse mouth. Immediately call a POISON CENTER or doctor. Specific treatment. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED : Do NOT induce vomiting. Rinse mouth.

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

- Symptoms relating to use** : Swallowing a small quantity of this material will result in serious health hazard. May cause an allergic skin reaction.

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

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4. First aid measures (continued)

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Water spray. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.
For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing dust, fume, gas, mist,

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7. Handling and storage (continued)

Technical protective measures : vapours, spray.
: Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection



Personal protection : Avoid all unnecessary exposure.
• Respiratory protection : Where excessive vapour may result, wear approved mask.
• Hand protection : In case of repeated or prolonged contact wear gloves.
Wear protective gloves.
• Eye protection : Chemical goggles or safety glasses.
• Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Crystalline powder.
Colour : Yellow-brown.
Odour : Odourless.
pH value : 5 - 7
Critical temperature [°C] : Not applicable.
Flash point [°C] : Not applicable.
Initial boiling point [°C] : Not applicable.
Final boiling point [°C] : Not applicable.
Evaporation rate : Not applicable.
Relative density, liquid (water=1) : Not applicable.

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9. Physical and chemical properties (continued)

Solubility : Very slightly soluble in water. Slightly soluble in ethanol 96%.

9.2. Other information

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide.
Fumes. Carbon dioxide.

11. Toxicological information

11.1. Information on toxicological effects

Toxicity information

Acute toxicity : Harmful if swallowed.

- **Inhalation** : No data available.
- **Dermal** : No data available.
- **Ingestion** : Harmful if swallowed.

- **Rat oral LD50 [mg/kg]** : 590

Corrosion : No data available.

Irritation : No data available.

Sensitization : May cause an allergic skin reaction.

Mutagenicity : No data available.

Carcinogenicity : No data available.

Toxic for reproduction : No data available.

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11. Toxicological information (continued)

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Not established.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: Not applicable.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID)

General information : Not regulated.

14.2. Sea transport (IMDG) [English only]

General information : Not regulated.

14.3. Air transport (ICAO-IATA) [English only]

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14. Transport information (continued)

General information : Not regulated.

15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : *

Abbreviations and acronyms : Not applicable.
PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Labelling EC 67/548 or EC 1999/45

• Symbol(s)



• Symbol(s) : Xn : Harmful

• R Phrase(s) : R22 : Harmful if swallowed.
R43 : May cause sensitization by skin contact.

• S Phrase(s) :
S13 : Keep away from food, drink and animal feedingstuffs.
S36 : Wear suitable protective clothing.
S46 : If swallowed seek medical advice immediately and show this container or label.

List of full text of H-statements in section 3 : H302 : Harmful if swallowed.
H317 : May cause an allergic skin reaction.

List of relevant R phrases (heading 3) : R22 : Harmful if swallowed.
R43 : May cause sensitization by skin contact.

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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End of document

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