

Safety Data Sheet according to 91/155/EEC

ADDCON EUROPE GmbH

Revision date : 11.05.2009

Revision no. : 1.03



KOFASIL LIQUID

00242-0006

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

Identification of the substance or preparation

KOFASIL LIQUID

Use of the substance/preparation

Safety additive for green material ensiling.

Company/undertaking identification

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2. Composition/information on ingredients

Chemical characterization (preparation)

Preparation contains natrium nitrite and methenamine.

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-555-9	7632-00-0	Sodium nitrite	< 25 %	O, T, N R8-25-50
202-905-8	100-97-0	Hexamethylenetetramine	~ 20 %	F R11-43

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification

Symbols : Harmful

R-phrases :

Harmful by inhalation and if swallowed.

4. First aid measures

General information

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

After contact with skin

Wash off immediately with soap and plenty of water.

Treat subsequently with skin cream.

Consult a doctor if skin irritation persists.

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After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists, consult a specialist.

After ingestion

Allow the affected person to vomit themselves, if necessary.

Induce vomiting only upon the advice of a physician.

Drink plenty of water.

Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media

Foam, Water spray jet

Extinguishing media which must not be used for safety reasons

Dry fire-extinguishing substance, Carbon dioxide

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x).

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Protective suit

Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema).

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

7. Handling and storage

Handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

Keep away from heat.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

No special protective measures against fire required.

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Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Advice on storage compatibility

Incompatible with acids.

Further information on storage conditions

Keep away from food and drink.

Storageclass (VCI)

10

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Breathing apparatus in the event of high concentrations.

Hand protection

Solvent-resistant gloves (butyl rubber).

Select the appropriate glove material adhering to the breakthrough time, permeation rate and the degradation.

Eye protection

Eye wash bottle with pure water.

Tightly fitting goggles

Skin protection

Long sleeved clothing.

9. Physical and chemical properties

General information

Physical state	Liquid
Colour	Yellowish
Odour	Odourless

Important health, safety and environmental information

pH-Value :	8 - 10	Test method
Changes in the physical state		
Flash point	n.a.	
Flammability		
Lower explosion limits	n. d.	

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Ignition temperature	n. d.
Density (at 20 °C) :	1,23 g/cm ³
Water solubility : at (20 °C)	Miscible

10. Stability and reactivity

Conditions to avoid

With temperatures above 300°C, as well as under action of acids, oxides of nitrogen come into being.

Materials to avoid

Acids

Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Acute toxicity

LD50/oral/rat: 721 mg/kg

LD50/dermal/rat: > 5000 mg/kg

LC50/inhalativ/rat: 3,29 mg/l (4h)

Sensitising effects

Sensitization skin (guinea pig): Non-sensitising (Magnusson-Kligmann Test)

Not sensitizing in the maximum-dose test on guinea pigs

Empirical data on effects on humans

Harmful by inhalation and if swallowed.

May cause sensitization by inhalation.

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

Prolonged skin contact may cause irritation.

12. Ecological information

Further information

Do not flush into surface water or sanitary sewer system.

Hazard to waters

13. Disposal considerations

Advice on disposal

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products

020108 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING; wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing; agrochemical waste containing dangerous substances
Classified as hazardous waste.

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Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Land transport (ADR/RID)

Inland waterways transport

Marine transport

Air transport

Further Information

No hazardous material as defined by the transport regulations.

15. Regulatory information

Labelling

Indication of danger Xn - Harmful

Labelling according to EC-guidelines Labelling happened on the basis of results of toxicological examination.

Hazardous component(s) to be indicated on label

Hexamethylenetetramine

Sodium nitrite

R phrases

20/22 Harmful by inhalation and if swallowed.

S phrases

02 Keep out of the reach of children.

23 Do not breathe Vapour.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

46 If swallowed, seek medical advice immediately and show this container or label.

National regulations

Employment restrictions

Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class

2 - water contaminating

1999/13/EC (VOC)

0 %

16. Other information

List of relevant R phrases

08 Contact with combustible material may cause fire.

11 Highly flammable.

25 Toxic if swallowed.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

20/22 Harmful by inhalation and if swallowed.

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Other data

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)