

This product does not need any safety sheet or CAS number. Nonetheless we provide you with the information in the format you are used to.

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

1.1 Product identifier

Name : AMN Optifer®

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

Relevant identified uses of the substance or mixture: : Orgaic NPK fertiliser

1.3 Details of the supplier of the safety data sheet

Company : Mack bio-agrar GmbH
Bahnhofstraße 168
70736 Fellbach, Germany

Phone : +49-0711/95 79 49 11

Fax : +49-0711/95 79 49 81

Email : verkauf@mack.bio-agrar.de

1.4 Emergency telephone

Emergency information services : 122 or 999 or 911

2 Hazards identification

2.1 Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

2.2 Kennzeichnungselemente Kennzeichnung (VO (EG) Nr. 1272/2008)

Kein gefährlicher Stoff oder gefährliches Gemisch gemäß der VO (EG) Nr. 1272/2008.

Labeling according to Regulation (EC) 1272/2008 (CLP)

Further Information : According to EG directives no further labeling is required

2.3 Other hazards

According to our best knowledge and experiences there are no dangers if used as instructed.

3 Composition/information on ingredients

3.1 Substance

Chemical Characterization : Fertiliser, liquid, organic resources

4 First aid measures

4.1 Description of first aid measures

In General : Avoid contact with skin, clothes and eyes

Inhalation : Not relevant

Skin contact : Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact : Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Do not rub. Product is mechanically abrasive.

Ingestion : Rinse the mouth thoroughly with water. Give copious water to drink. Consult doctor if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Not Available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Not Available

5 Firefighting measures

Suitable extinguishing media : Adapt to the nature and extent of fire.

Special hazards arising from the substance or mixture : In case of fire the following can develop: n.a.

Advice for firefighters : According to size of fire Protective respirator with independent air supply. Dispose of contaminated

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

: Ensure sufficient supply of air. Avoid build up of dust. Avoid contact with eyes or skin.

6.2 Environmental precautions

: If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

: Clean leaked product with lots of water or add to suitable rubbish recycling processes.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7 Handling and storage

7.1 Precautions for safe handling

Notes on general hygiene measures at the workplace

: General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

: Not to be stored in gangways or stair wells. Store product closed and only in original packing. Store in a dry place. Do not store together with food.

Storability

: Store cool and without direct sunlight for at least 5 years.

7.3 Specific end use(s)

: No information available at present.

8 Exposure controls/personal protection

8.1 Control parameters

No data

DNEL : No data

PNEC : No data

8.2 Exposure controls

Appropriate engineering controls

: Ensure good ventilation

Individual protection measures, such as personal protective equipment

Respiratory protection : If necessary wear a breathing mask while spraying

Skin protection : Rubber gloves (EN 374).

Eye protection : Tight fitting protective goggles with side protection
(EN 166)

Skin protection : Protective working garments

General hygiene measures for the handling of chemicals are applicable. : Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Environmental exposure controls

: No information available at present.

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state : liquid
Colour : brown
Smell : iron

:

Other information

pH Value : 3 (20 °C)
explosive : not
Density : 1,26 g/cm³
Water solubility : yes

10 Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling

10.3 Possibility of hazardous reactions

: No danger known

10.4 Conditions to avoid

: Strong heat

10.5 Incompatible materials

: Strong acids, bases as well as oxidizers

10.6 Gefährliche Zersetzungsprodukte

: None known

11 Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

12 Ecological information

Possibly more information on health effects, see Section 2.1 (classification).

13 Disposal considerations

13.1 Waste treatment methods

product	:	Organic fertiliser
recommended	:	Use residuals as fertiliser or for compost. The leftovers should be recycled according to local regulations
Packing materials	:	Should be recycled according to local regulations

14 Transport information

No special classification. Unless specified otherwise, general measures for safe transport must be followed.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15 Regulatory information

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

: For classification and labelling see Section 2. Observe restrictions: General hygiene measures for the handling of chemicals are applicable.

15.2 Chemical safety assessment

: There is no chemical safety report available.

16 Other information

These details refer to the product as it is delivered.

All information to our best knowledge, no liability for mistakes.