

Material Safety Data Sheet

According to 91/155 EEC(2001/58 EC)

Printing date: 17.01.2007

Reviewed on: 17.01.2007

1 Identification of substance:

- **Product details:**
- **Trade name:** **Sodium Formate**
- **Application of the substance / the preparation** Chemicals for synthesis
- **Supplier/Manufacturer:**
Penpet Petrochemical Trading GmbH
Merkur-Park
Sieker Landstrasse 126
22143 Hamburg
Germany
Tel: +49 40 675 799 0
Fax: +49 40 675 799 99 / 88
- **Information department:** see above
- **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
141-53-7 sodium formate
- **Identification number(s):**
- **EINECS Number:** 205-488-0

3 Hazards identification

- **Hazard description:** not applicable
- **Information pertaining to particular dangers for man and environment:**
According to current European laws and regulations the product is not dangerous or toxic material (based on the available data).
- **Classification system:**
The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

4 First aid measures

- **General information:** If symptoms persist or in case of doubt seek medical advice.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness, place patients on their side in a stable position for transportation.
- **After skin contact:**
Remove soiled clothes and shoes.
Wash with water and soap and rinse with plenty of water.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
If symptoms persist consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Induce vomiting.
Seek medical treatment.
- **Information for doctor:**
- **Treatment:**
Symptomatic treatment
In cases of irritation to the lungs, initial treatment with Dexametason metered aerosol.

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5 Fire fighting measures

- **Suitable extinguishing agents:**
The product is not combustible and does not support the combustion.
Use fire fighting measures that suit the environment.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Dangerous decomposition product see chapter 10: stability and reactivity
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:** Avoid formation of dust.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**
Pick up mechanically.
Avoid dust formation absolutely. If necessary pick up with a tested and approved industrial vacuum cleaner.
Send for recovery or disposal in suitable receptacles.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Avoid inhalation of dust.
Any deposit of dust which cannot be avoided must be regularly removed.
- **Information about protection against explosions and fires:**
No special measures required.
Select fire and explosion prevention measures according to the other substances stored/used.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store container tightly sealed at a cool and dry place with sufficient ventilation.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from feed.
- **Further information about storage conditions:**
Store in dry conditions.
This product is hygroscopic.
- **Storage class** 13 Non combustible solid

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional Occupational Exposure Limit Values for possible hazards during processing:**
Observe general threshold limit for dust.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures should be adhered to when handling chemicals.
Do not inhale dust / smoke / mist.
Do not eat or drink while working.
Use skin protection cream for skin protection.

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· Breathing equipment:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

Chemical resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

For undissolved solid substances following materials may be suitable:

Nitrile rubber, NBR

Butyl rubber, BR

Polychloroprene rubber (CR)

Fluorocarbon rubber (FKM)

Following data refer to aqueous saturated solution of the substance:

Suitable glove material:

Natural rubber - NR (0,5 mm)

Polychloropren rubber - CR (0,5 mm)

Nitrile rubber - NBR (0,35 mm)

Butyl rubber - Butyl (0,5 mm)

Fluorocarbon rubber - FKM (0,4 mm)

· Penetration time of glove material:

The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: At formation of dust or insufficient ventilation: Tightly sealed goggles.

· Body protection: Protective work clothing.

9 Physical and chemical properties:

· General Information

Form: Powder
Colour: Colourless
Odour: Odourless

· Change in condition:

Melting point/Melting range: undetermined

Boiling point/Boiling range: undetermined

· Flash point: not applicable

· Ignition temperature:

· Decomposition temperature: ~ 260°C

· Danger of explosion: Product does not present an explosion hazard.

· Density at 20°C: 1.92 g/cm³

· Solubility in / Miscibility with

Water at 20°C: 550 g/l

· pH-value (50 g/l) at 20°C: 7-8

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

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To avoid thermal decomposition do not overheat.

· **Materials to be avoided:** Oxidants

· **Dangerous products of decomposition:**

In the case of fire or at high temperatures the formation of the following decomposition products is possible.

Carbon monoxide and carbon dioxide

Oxides of sodium

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral LD₅₀ > 3000 mg/kg (rat)

· **Primary irritant effect:**

· **on the skin:** No irritating effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Other information (about experimental toxicology):** Ames-test: no mutagenic effects

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

· **Information about elimination (persistence and degradability):**

· **Other information:** The product is readily biodegradable.

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

EC₅₀/24h ≥ 1000 mg/l (daphnia magna)

LC₅₀/48h > 1000 mg/l (leuciscus idus)

· **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Danger to drinking water is possible if large quantities leak into the ground or into water course.

13 Disposal considerations

· **Product:**

· **Recommendation:** Disposal according to instructions of local authorities.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** No hazardous good according to the regulation.

· **Maritime transport IMDG:**

· **IMDG Class:** No hazardous good according to the regulation.

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** No hazardous good according to the regulation.

15 Regulations

· **Markings according to EC guidelines:**

The substance(product) is not subject to classification according to EC-directives and other sources of literature known to us.

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Observe the general safety regulations when handling chemicals

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- **National regulations**
 - **Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.
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16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
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