

Date of Issue: 18.08.2005
Replaced Data Sheet: May 2002
Product Name: Compound OK 99 N (Hardener)

Page 1 of 3

***1 Identification of the Substance/Preparation and the Company**

Product Name: **Compound OK 99 N (Hardener)**
Application: Hardener component for the production of casting compound.
Producer/Supplier: HÖHNE GmbH
Mühlenstraße 76
D-25421 Pinneberg (Germany)
Telephone: +49 - (0)4101 / 5453 - 0 / Fax: - 33
Internet: www.hoehne.de / E-Mail: info@hoehne.de
Emergency Phone No.: In an emergency dial your local Emergency Call.
Keep this Safety Data Sheet at hand.

***2 Composition / Information on Ingredients**

Chemical Characterization (Preparation):
Hardener component based on modified polybutadiene.
Additional Information:
No hazardous substance or hazardous preparation according to latest version of 67/548/EEC.
Information indicated in chapter 8 are to be considered.

3 Hazards Identification

Special Hazard Identification for Human and Environment:
Hazard warning not required. No specific hazards under normal conditions of handling and use.

4 First-Aid Measures

General:
Remove soiled, soaked clothing and shoes.
Inhalation:
No special measures required. Move to fresh air.
Skin Contact:
Wash with plenty of cold or lukewarm water and soap.
Eye Contact:
Flush eyes with plenty of water for at least 15 minutes, with eyelids held open. A doctor (or eye specialist) should be consulted.
Swallowing:
Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention

***5 Fire-Fighting Measures**

Suitable Extinguishing Media:
Extinguishing powder, alcohol-resistant foam, carbon dioxide, water spray or water mist.
Extinguishing Media which must not be used for safety reasons:
Water jet.
Special Exposure Hazards arising from the substance itself, combustion products, resulting gases:
Burning product sets free a complex mixture of gases and airborne particulates, including carbon monoxide, carbon dioxide and other noxious and inflammable gases and fumes.
Special Protective Equipment for Fire Fighting:
Use respiratory protection independent of recirculated air.
Further Information:
Cool closed containers exposed to fire with water.

***6 Accidental Release Measures**

Personal Precautions:
Wear personal protection clothing (see Chapter 8).
Environmental Precautions:
Do not allow to enter drains, sewers or watercourses.
Clean-up Method:
Adsorb spillages onto sand, earth or any suitable adsorbent material. Fill it into a clearly marked container and dispose of according to local/state/federal regulations (see Chapter 13).

Date of Issue: 18.08.2005
Replaced Data Sheet: May 2002
Product Name: Compound OK 99 N (Hardener)

*7 Handling and Storage

Handling:

Observe the usual precautionary measures for chemicals. Handle in accordance with good industrial hygiene and safety practices. These practises include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.

Precautions Against Fire and Explosion:

Observe the general rules for fire prevention.

Storage:

Keep container tightly closed and store under cool and dry conditions.

Keep separated from foodstuffs.

Keep away from strong oxidising agents and acids.

Avoid direct sunlight and heat sources. Protect against moisture.

Storage Temperature: 10 - 40°C

*8 Exposure Controls / Personal Protection

For technical protective measures to limit exposure see also Chapter 7 "Handling and Storage".

Occupational Exposure Limits:

The product contains no components with an Occupational Exposure Limit.

Personal Protection:

Respiratory Protection: Not required under normal working conditions.

Hand Protection: Recommendation: Use protective gloves (PE, PVC or Latex).
Break-through time not examined. After contamination dispose of.

Eye Protection: Chemical safety glasses/full face shield if splashing is possible.

Skin Protection: Overall should be worn.

General safety and hygienic measures:

Do not eat, drink or smoke during work.

Wash hands with water and soap before breaks and at end of work.

Remove contaminated clothing. Contaminated clothing should be thoroughly cleaned before re-use.

Store work clothes and street clothes separately.

*9 Physical and Chemical Properties

tested in accordance with

Form:	liquid	
Colour:	red (transparent)	
Odour:	nearly odourless, specific	
Boiling Point / Boiling Range:	not applicable	
Pour Point:	< -30°C	
Flash Point:	> 200°C	DIN 51 758
Ignition Temperature:	> 300°C	DIN 51 794
Vapour Pressure:	< 0,01 hPa	(at 20°C)
Density:	approx. 0,93 g/cm ³	(at 23°C) DIN 51 757
Viscosity:	approx. 4000 mPa·s	(at 23°C) Brookfield
Solubility in Water:	insoluble	(at 20°C)
pH value	not applicable	

*10 Stability and Reactivity

General Information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Conditions to Avoid:

Stable under normal use conditions.

Beginning depolymerisation at temperatures above 300°C.

Material to Avoid:

Strong oxidising agents and acids.

Hazardous Decomposition Products:

No hazardous decomposition products when stored and handled correctly.

Date of Issue: 18.08.2005
Replaced Data Sheet: May 2002
Product Name: Compound OK 99 N (Hardener)

Page 3 of 3

*11 Toxicological Information

Basis for Assessment:

Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products.

Acute Toxicity:

Very low acute oral toxicity (LD₅₀ oral, rat: > 10000 mg/kg).

Irritating/Corrosive Effects:

Eye Contact: Slight or no chemically caused eye irritation.

Skin Contact: Slight or no chemically caused skin irritation.

Sensitisation: No sensitising effect known.

Further Information:

In the case of appropriate handling and intended use the product does not cause effects injurious to health after experiences of many years and the available information.

*12 Ecological Information

Basis for Assessment:

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Bioaccumulation Potential: Unlikely, due to very low water solubility.

Degradability: The degradation of the product is expected to be very slow.

Aquatic toxicity: Fish toxicity LC₅₀: > 100 mg/l.
Bacteria toxicity EC₀: > 100 mg/l.

Further Information:

Do not allow to escape into waters, wastewater or soil.

The product is practically not water-soluble and free of poisons and heavy metals. The product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Due to the physical characteristics a separation of the product takes place with each filtration or sedimentation procedure. In the hardened condition (after the reaction with the resin) insolubly in water.

*13 Disposal Considerations

Disposal of Residues:

Dispose of according to regulations by incineration in a special waste incinerator.

The relevant EU Directives and local, regional and national regulations must be complied with.

It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste Catalogue. It is recommended that details be sorted out with the waste disposer responsible.

Uncleaned Packaging (Recommendation):

Containers have to be emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"). Recycle or dispose of in accordance with the legislation in force with a recognised collector or contractor. Labels should not be removed from containers until they have been cleaned.

*14 Transport Information

Not classified as hazardous for transport (ADR, RID, UN, IATA/ICAO)

Protect against moisture. Keep separated from foodstuffs.

*15 Regulatory Information

No labelling is required in accordance with the EEC directives.

National Regulation (Germany):

Water pollution class (WGK): 1 - slightly hazardous to water

WGK = Classification in accordance with the German Water Resources Act (VwVwS 1999-05-17)

*16 Other Information

This data sheet was prepared in accordance with the EU Directives.

In the Safety Data Sheet all chapters which have been changed since last edition are marked with an asterisk (*) in front of the chapter number.

This Safety Data Sheet replaces all previous information.

Revised and valid from: see date of issue.