# Safety data sheet



BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 27.09.2010 Version: 2.0
Product: **Butonal® NX 4190**

(30508809/SDS_GEN_EU/EN)
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## 1. Identification of the substance/mixture and of the company/undertaking

### Butonal® NX 4190

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Regional Business Unit Dispersions for Adhesives & Construction Europe
Telephone: +49 621 60-43364
Telefax number: +49 621 60-20166
E-mail address: ps-edk@basf.com

Emergency information:
International emergency number:
Telephone: +49 180 2273-112

## 2. Hazards Identification

**According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures**

Classification of the substance and mixture:
No need for classification according to GHS criteria for this product.

**Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)**

No particular hazards known.

If the product adheres to skin, irritation may occur when it dries.

## 3. Composition/Information on Ingredients

Chemical nature

Aqueous dispersion of a polymer based on: styrene, butadiene

Hazardous ingredients
according to Directive 1999/45/EC

sulfur

Content (W/W): >= 1 % - < 2.5 %
CAS Number: 7704-34-9
EC-Number: 231-722-6
REACH registration number: 01-2119422098-42
INDEX-Number: 016-094-00-1
Hazard symbol(s): Xi
R-phrase(s): 38

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

## 4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Rinse mouth immediately and then drink plenty of water, seek medical attention.

## 5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, dry powder, foam, carbon dioxide

## 6. Accidental Release Measures

Methods for cleaning up or taking up:
For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.
For large amounts: Pump off product.
For residues: Rinse away with water.

## 7. Handling and Storage

Handling

Handle in accordance with good industrial hygiene and safety practice. After long storage, slight quantities of carbon monoxide may be formed. To our best knowledge, the occupational exposure limit (OEL) is not exceeded during use. Entering of tanks must only be performed after intensive cleaning and when it is ensured that residual vapours have been removed. Consideration of national laws and international standards for confined space entry should be taken in to account. In case of doubt, the concentration of Carbon monoxide must be determined.

Storage

Further information on storage conditions: Store protected against freezing.

## 8. Exposure Controls/Personal Protection

Components with workplace control parameters

64-17-5: ethanol

7704-34-9: sulfur

112-80-1: oleic acid

Personal protective equipment

Hand protection:
Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures:
Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

## 9. Physical and Chemical Properties

| | |
|---|---|
| Form: | liquid |
| Colour: | white |
| Odour: | faint odour |
| pH value: | approx. 5.0 - 5.6 |
| Freezing point: | approx. 0 °C |
| *Information on: water solidification temperature:* | *0 °C* |
| Boiling point: | approx. 100 °C |
| *Information on: water boiling temperature:* | *100 °C (1,000 hPa)* |
| Flash point: | not applicable |
| Vapour pressure: | approx. 17.5 mmHg (20 °C) |
| *Information on: water Vapour pressure:* | *23 mbar (20 °C)* |
| Density: | approx. 0.90 - 0.95 g/cm³ (20 °C) |
| Solubility in water: | partly soluble (15 °C) |
| Miscibility with water: | miscible |
| Viscosity, dynamic: | approx. 250 - 2,000 mPa.s |
| Solids content: | approx. 63 - 65 % |

## 10. Stability and Reactivity

Thermal decomposition: No decomposition if used correctly.

Hazardous reactions:
No hazardous reactions when stored and handled according to instructions. After long storage, slight quantities of carbon monoxide may be formed.

## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:
Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Experimental/calculated data:
LD50 rat (oral): > 2,000 - 10,000 mg/kg

### Irritation

Assessment of irritating effects:
If the product adheres to skin, irritation may occur when it dries.

Not irritating to the eyes. Not irritating to the skin. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

### Respiratory/Skin sensitization

Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from products of a similar structure or composition.

### Germ cell mutagenicity

Assessment of mutagenicity:
The substance was not mutagenic in bacteria. The product has not been tested. The statement has been derived from products of a similar structure or composition.

### Other relevant toxicity information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The statement was derived from products of similar composition.

## 12. Ecological Information

### Ecotoxicity

Toxicity to fish:
LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203, static)

Aquatic invertebrates:
EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic plants:
EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus (OECD Guideline 201)
Nominal concentration.

Microorganisms/Effect on activated sludge:
EC20 (0.5 h) > 100 mg/l, activated sludge, domestic (DIN EN ISO 8192-OECD 209-88/302/EEC,P. C)

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

### Persistence and degradability

Assessment biodegradation and elimination (H2O):
The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

Elimination information:
> 70 % DOC reduction (OECD 302B; ISO 9888; 88/302/EEC,part C) Easily eliminated from water.

### Bioaccumulation potential

Bioaccumulation potential:
Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

### Additional information

Other ecotoxicological advice:
Do not release untreated into natural waters. At the present state of knowledge, no negative ecological effects are expected.

Ecological data are determined by analogy.

## 13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.
Observe national and local legal requirements.

## 14. Transport Information

**Land transport**

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

**Inland waterway transport**
ADNR

Not classified as a dangerous good under transport regulations

**Sea transport**
IMDG

Not classified as a dangerous good under transport regulations

**Air transport**
IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory Information

**Regulations of the European union (Labelling) / National legislation/Regulations**

Directive 1999/45/EC ('Preparation Directive'):

The product does not require a hazard warning label in accordance with EC Directives.

**Other regulations**

The information fulfills the requirements of Directive 1999/45/EC concerning preparations and the associated requirements for 'safety data sheets'.

## 16. Other Information

Any other intended applications should be discussed with the manufacturer.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

| | |
|---|---|
| Xi | Irritant. |
| 38 | Irritating to skin. |

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.