



NECURON[®] K8 B

Safety Data Sheet

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

Product details

Trade name: NECURON[®] K8 B-Component

Utilization of the substance of the formulation: Hardener for epoxy resin

Manufacturer/Supplier: NECUMER-PRODUCT GmbH
Bruchheide 16
49163 Bohmte
Tel.: +49 (0) 5471-95020
Fax: +49 (0) 5471-950299

2. Composition/information on ingredients

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 25154-52-3 EINECS: 246-672-0	nonylphenol Repr. Cat. 3; C, Xn, N; R 22-34-62-50/53-63	50-100%
CAS: 4067-16-7 EINECS: 223-775-9	3,6,9,12-tetra-azatetradecamethylenediamine C, N; R 34-43-50/53	10-25%

Additional information: For the wording of the listed risk phrases refer to section 16.

3. Hazards identification

Hazard description:



C Corrosive



N Dangerous for the environment

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 43 May cause sensitisation by skin contact.

R 62 Possible risk of impaired fertility.



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R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 63 Possible risk of harm to the unborn child.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. First-aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards caused by the substance, its products of combustion or resulting gases:

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.



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: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7. Handling and storage

Handling:

Information for safe handling:

Keep receptacles tightly sealed.

Ensure that suitable extractors are available on processing machines

Information about fire - and explosion protection:

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

Storage:

Requirements to be met by storerooms and receptacles:

Keep container tightly closed and dry and storage in a good ventilated room.

Storage temperature: 15 - 25 °C.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store in a cool place.

Protect from heat and direct sunlight.

Keep container tightly sealed.



8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Protection of hands:

Protective gloves



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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

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

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.

As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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.



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Eye protection:

Tightly sealed goggles



Body protection: Protective work clothing

9. Physical and chemical properties

General Information

Form: Fluid

Colour: According to product specification

Odour: Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 295°C

Flash point: 110°C

Ignition temperature: > 300°C

Self-igniting: Product is not selfigniting.

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

Density at 20°C: 0.95 g/cm³

Solubility in / Miscibility with water: Not miscible or difficult to mix.

Viscosity: Dynamic at 20°C: ca. 55000 mPas

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided: Avoid contact with strong oxidizing agents.

Dangerous reactions Violent reaction with concentrated alkali and oxidizing agents.

Dangerous decomposition products:

Carbon monoxide

Carbon dioxide

Nitrogen oxides



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11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

25154-52-3 nonylphenol

Oral LD50 1620 mg/kg (rat)

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

12. Ecological information

Ecotoxicological effects:

Remark: Very toxic for fish

General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

13. Disposal considerations

Product:

Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)



ADR/RID class: 8 Corrosive substances.

Danger code (Kemler): 80

UN-Number: 1760

Packaging group: II

Hazard label 8

Description of goods: 1760 CORROSIVE LIQUID, N.O.S. (nonylphenol)

Maritime transport IMDG:



IMDG Class: 8

UN Number: 1760

Label 8

Packaging group: II

EMS Number: F-A,S-B

Marine pollutant: No

Proper shipping name: CORROSIVE LIQUID, N.O.S. (nonylphenol)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 8

UN/ID Number: 1760

Label 8

Packaging group: II

Proper shipping name: CORROSIVE LIQUID, N.O.S. (nonylphenol)



15. Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

C Corrosive

N Dangerous for the environment

Hazard-determining components of labelling:

3,6,9,12-tetra-azatetradecamethylenediamine nonylphenol

Risk phrases:

22 Harmful if swallowed.

34 Causes burns.

43 May cause sensitisation by skin contact.

62 Possible risk of impaired fertility.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

63 Possible risk of harm to the unborn child.

Safety phrases:

20 When using do not eat or drink.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

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

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

57 Use appropriate container to avoid environmental contamination.

National regulations:

Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

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.

Relevant R-phrases

22 Harmful if swallowed.

34 Causes burns.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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62 Possible risk of impaired fertility.

63 Possible risk of harm to the unborn child.

Department issuing MSDS: environment protection department

Contact:

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