

# MATERIAL SAFETY DATA SHEET

Effective Date : 29<sup>th</sup>, May 2009 / Revised Date :

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Trade name : PVDF Blocking Reagent for Can Get Signal

Producer : NOF Corporation  
Address : Life Science Products Division  
Yebisu Garden Place Tower, 20-3 Ebisu 4-Chome,  
Shibuya-ku, Tokyo 150-6019 JAPAN  
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Emergency Phone : Phone ; +81-29-847-8891  
(Tsukuba Corporate Research Laboratory)

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## 2. COMPOSITION/INFORMAION ON INGREDIENTS

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### Chemical Characterization

Hydrophiric Polymer in phosphate buffered salt solution containing  
Sodium Azide@0.09%

### Hazardous Ingredients

Sodium Azide@0.09%  
CAS Number: 026628-22-8  
Symbol: Harmful Xn  
R-phrases: R22, R31, R52/53  
S-phrases: S28, S54, S53, S60, S61

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## 3. HAZARDS AND POTENTIAL HEALTH EFFECTS

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### Sodium Azide

Harmful if swallowed; Harmful to aquatic organisms/ may cause long-term adverse effects in the aquatic environment.

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## 4. FIRST AID MEASURES

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### Sodium Azide:

Eyes : Flush with copious amount of water or eye wash saline for at least 15 minutes. Consult with a physician if irritation occurs.

Skin : Wash affected area with anti-microbial soap and water, rinse with water. Remove and wash contaminated clothing.

Inhalation : Remove to fresh air; If not breathing, give artificial respiration.

Ingestion : For small amounts, rinse mouth with water provide person is conscious. Consult with physician.

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## 5. FIRE FIGHTING MEASURES

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### Sodium Azide:

No special procedures/media are required.

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**6. ACCIDENTAL RELEASE MEASURES**

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Sodium Azide:

Wear appropriate protective clothing. Cover with absorbent; Wash area thoroughly.

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**7. HANDLING AND STORAGE**

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Sodium Azide:

Handling : Wear proper protective equipment to avoid contact with skin or eyes.

Storage : Keep containers upright and tightly closed in a cool location, and keep away from sunlight.

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**8. EXPOSURE CONTROLES / PERSONAL PROTECTION**

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Personal protective equipment : Safety glasses or goggles, gloves and laboratory coat or overalls.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance : Colorless liquid.

Odor : Odorless. (slightly characteristic odor)

Boiling point : Approx. 100 °C

Melting point : Approx. 0 °C

Density : No information is available.

pH 3.0 ~ 10.0

Solubility : &gt; 100g / 100g (Water) at 20 °C

Vapor pressure : No information is available.

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**10. STABILITY AND REACTIVITY**

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Stability : Stable.

Condition to avoid Heat, flame, other Sources of ignition, dusting.

Decomposition products : No information is available.

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**11. TOXICOLOGICAL INFORMATION**

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Sodium Azide:

Short-term effects: In pure form, sodium azide is highly toxic and may be fatal if inhaled, swallowed, or absorbed through the skin. May cause eye and skin irritation. At product concentrations, sodium azide is not believed to cause hazardous short-term effects.

Long-term effects: In pure form, sodium azide is classified as a questionable carcinogen with experimental tumourigenic data. At product concentrations, there are no hazardous long-term effects documented.

Precautionary note: To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated at product concentrations.

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**12. ECOLOGICAL INFORMATION**

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Biodegradability :	No information is available.
Bioaccumulation :	No information is available.
Fish toxicity :	No information is available.
Other information on ecotoxicity :	No information is available.

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**13. DISPOSAL CONSIDERATIONS**

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Observe all federal, state, and local environmental regulations. If the this solution is acceptable, flush with large volumes of water to prevent build-up of azides in plumbing.

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**14. TRANSPORT INFORMATION**

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Keep away from sunlight or rain and avoid rough handling or dropping. Follow all regulations in your country.

CDG UK: Non-hazardous for road freight  
IMDG: Non-hazardous for sea freight  
IATA: Non-hazardous for air freight

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**15. REGULATORY INFORMATION**

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Follow all regulations in your country.

Sodium Azide(<0.2%)

Labeling according to EC directives: Contains 0.095% sodium azide  
Symbol: Harmful Xn  
R-phrases: R22, R31, R52/53  
S-phrases: S28, S54, S53, S60, S61

Small pack derogation applies to all other risks and safety phrases.

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**16. OTHER INFORMATION**

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The above information is believed to be correct but does not purport to be all inclusive and shall only be a guide.

NOF Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.

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R22: Harmful if swallowed.

R31: Contact with acids liberates toxic gas.

R52/53: Harmful to aquatic organisms/may cause long-term adverse effects in the aquatic environment.

S28: After contact with skin, wash with plenty of water.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53: Avoid exposure-obtain special instructions before use.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

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