

Safety Data Sheet
According to 2001/58/EC

Reviewed on 10 August 2008

1. Identification of substance:

- **Product details:**

- **Trade name: Soarnol**

Grade name:

V2504RB,DT2903,DT2904RB,D2908,
DC3203F,DC3203FB,DC3212B,DC3203RB
BF3203B,BF3205B,BF3205JB,TF2905B
ET3803,ET3804JB,E3808
AT4403,AT4403B,AT4406EB,A4412,A4412B,H4815B

- **Article number:** NEU J001EN

- **Manufacturer:**

The Nippon Synthetic Chemical Industry Co. Ltd.
Umeda Sky Bldg., Tower East,
1-1-88, Oyodonaka, Kita-ku, Osaka, Japan

Tel.: +81-6-6440-5313

Fax: +81-6-6440-5326

- **Supplier:**

Nippon Gohsei Europe GmbH
Merowingerplatz 1a 40225 Düsseldorf

Tel.: +49-211-385488-0

- **Information:** +49-211-385488-0

- **Emergency information:** see: manufacturer / supplier

2. Composition / Data on components:

- **Chemical characterization:**

- **CAS No. Designation:**

26221-27-2 Ethylene Vinyl Alcohol Copolymer (EVOH)

- **Additional information:** Purity min. 99.7%

3. Hazards identification

- **Hazard designation:** void

4. First aid measures

- **General information** No special measures required.

- **After inhalation** Supply fresh air and call for doctor for safety reasons.

- **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

After contact with the molten product, cool rapidly with cold water.

Do not pull solidified product away from the skin.

Seek medical treatment.

- **After eye contact**

Rinse opened eye for at least 15 minutes under running water. Then contact doctor.

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- **After swallowing**
If swallowed, do not induce vomiting, Get medical attentions.

5. Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents**
Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon dioxide (CO₂)
Carbon monoxide (CO)
Hydrocarbons
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
Wear full protective suit.

6. Accidental release measures

- **Person-related safety precautions:** Keep away from ignition sources
- **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning / collecting:** Collect mechanically.
- **Additional information:**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for information on disposal.

7. Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation / exhaustion at the workplace.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Keep container tightly closed in a cool and dry place.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
None
Protect from heat and direct sunlight.

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.
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for

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handling chemicals.
Avoid close or long term contact with the skin.
Do not inhale dust / smoke / mist.
Be sure to clean skin thoroughly after work and before breaks.

- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Protective gloves
- **Eye protection:** Safety glasses
- **Body protection:** Light weight protective clothing

9. Physical and chemical properties:

- **Form:** Pellets
- **Color:** Whitish
- **Odor:** Transparent
Odorless
- **Change in condition**
 - Melting point/Melting range:** 150-200°C
 - Boiling point/Boiling range:** Not determined
- **Flash point:** > 200°C
- **Inflammability (solid, gaseous)** Product is not inflammable.
- **Ignition temperature:** 500°C
- **Danger of explosion:** Product is not explosive.
- **Density at 20°C** 1.12-1.24 g/cm³
- **Settled apparent density** 0.64-0.75 g/cm³
- **Solubility in / Miscibility with**
 - Water** Insoluble
 - Water-Alcohols Mixed solvent** soluble
 - DMSO** soluble

10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
Stable at ambient temperature
- **Materials to be avoided:** oxidizing agents
- **Dangerous reaction** No dangerous reactions known
- **Dangerous products of decomposition:**
Carbon monoxide
Carbon dioxide
> 250°C

11. Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

26221-27-2 Ethylene Vinyl Alcohol Copolymer (EVOH)
Oral LD50 > 5000 mg/kg (rat)
- **Primary irritant effect:**
- **On the skin:** No irritant effect.
- **On the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.

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<ul style="list-style-type: none">• Additional toxicological information: The material is not subject to classification according to EC lists in the last version.
<p>12. Ecological information:</p> <ul style="list-style-type: none">• General notes: At present no ecotoxicological assessments are known. Water hazard class 1 (German Regulation) (Self-assessment): low hazard to waters.
<p>13. Disposal considerations</p> <ul style="list-style-type: none">• Product:• Recommendation Remove in accordance with the local official recommendations.• European waste catalogue 16 05 03 other waste containing organic chemicals, e.g. lab chemicals not otherwise specified.
<p>14. Transport information</p> <ul style="list-style-type: none">• Land transport ADR/RID• ADR/RID Class: - • Transport/Additional information: No dangerous good according to international transport regulations.
<p>15. Regulatory information</p> <ul style="list-style-type: none">• Designation according to EC guidelines: Observe the normal safety regulations when handling chemicals The material is not subject to classification according to EC lists and other sources of literature known to us. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV)
<p>16. Other information: This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.</p>