

Material Safety Data Sheet

NIPPON GOHSEI
Soarnol

Date Prepared : Oct. 1, 2003

Date Revised :

1. Identification of the substance and of the company

1.1. Identification of the substance :

Soarnol V2603B,DT2903, DT2903B, D2908, D2908B
DC3203F, DC3203FB, D3212B, BF3205B, TF2905B
ET3803, ET3803BN, E3808, E3808B
AT4403, AT4403B, AT4406MB, A4412, A4412B,H4815,H4815B

1.2. Company identification : The Nippon Synthetic Chemical Industry Co., Ltd.

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Japan

Telephone : +81(Japan)-6-6440-5313

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1.3. Emergency telephone number : +81-6-6440-5313(Nippon Gohsei, Soarnol Division)

(Mon. through Fri.(9:00 a.m. to 5:00 p.m. Japanese standard time))

2. Composition / information on ingredients

This product is not hazardous as defined in 29CFR1910.1200.

CAS # : 26221-27-2

Component : Ethylene Vinyl Alcohol Copolymer (EVOH)

3. Hazards Identification

Eye : Solid or dusts may cause irritation or corneal injury due to mechanical action.

Skin Contact: It is considered to be non-irritating to skin.

Ingestion : Oral toxicity is believed to be low.

Inhalation : Single exposure to dust is not likely to be hazardous.

Fire : Under fire conditions, SOARNOL may decompose to form flammable
and / or explosive mixture in air.

4. First aid measures

Eye : Irrigate with flowing water for more than 15 minutes.

Skin : Wash off with flowing water.

Ingestion : Rinse mouth with water. Call a physician, if large amounts are ingested.

Inhalation of Decomposition Gas : Remove to fresh air. Call a physician, if needed.

5. Fire-fighting measures

Hazardous Decomposition Product : Carbon dioxide, some carbon monoxide, a trace of aldehydes and hydrocarbons.

Extinguish Media : Water, alcohol-resistant foam, carbon dioxide and dry chemical.

Fire Fighting Instructions : Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. Accidental release measures

Environmental Precautions : Keep away from fire sources.

Spillage Control : Sweep up and discard.

7. Handling and storage

7.1. Handling : Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Avoid eye contact and breathing dusts. While processing at high temperature, ventilate adequately to avoid fumes.

7.2. Storage : Store in a cool dry place.

8. Exposure controls/personal protection

Skin protection : Protective gloves are preferable.

Eye protection : Safety goggles are preferable.

9. Physical and chemical properties

Appearance : White to slightly yellowish translucent pellet

Odor : Odorless

Boiling point : Not relevant

Melting point : 150-200 °C(302-392°F)

Flash point : More than 200 °C (392 °F)

Ignition point : 500 °C (932 °F)

Explosive properties : None

Oxidizing properties : None

Bulk density : 0.64 - 0.75

Relative density : 1.12 - 1.24

Solubility : Soluble -- Water-Alcohol Mixed Solvent, DMSO
Insoluble -- Water, Ethyl acetate, Benzene, Toluene, MIBK

10. Stability and reactivity

Apparent decomposition begins more than 250 °C (482 °F). Stable at a room temperature.

Incompatibility : Strong oxidizing materials.

Hazardous polymerization : Will not occur.

11. Toxicological information

Acute toxicity (Soarnol D2908) : LD₅₀(oral, rat) More than 5,000 mg/kg

Sub acute toxicity (Soarnol ET3803) : Oral(max. 5 wt% in diet), rat, for 3 months.

No particular change due to Soarnol was observed.

Mutagenicity in Microbial tests(Soarnol ET3803) : Not mutagenic.

12. Ecological information

Aquatic toxicity : No information.

Biodegradability : No information.

13. Disposal considerations

Burn in an incinerator, following all relevant regulations for disposal in your country.

14. Transport information

Follow all relevant regulations for transportation in your country.

15. Other information

No specific notes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.