Material Safety Data Sheet

IDENTITY (trade name and chemical name)
Spacer 3002

SECTION I.

Manufacturer's Name:
ELECTRONICS BUSINESS HEADQUARTERS
SHOBA DEMIO K.K.
Address:
13-9, Shiba Daimon 1-chome, Minato-ku,
Tokyo 105, Japan

Emergency Telephone Number:
+81-3-5470-3277

SECTION II. - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))
Aqueous solution of poly(isothianaphthenyl) sulfonate and surfactants (trade secret).

OSHA PEL: N.A.  ACGIH TLV: N.A.  Other Limits Recommended: None

SECTION III. - Physical/Chemical Characteristics

Specific Gravity (d20°/4°C): 1.001 ~ 1.007
Boiling Point: about 100 °C (212°F)
Melting Point: 0 °C (32°F)
Vapor Pressure (mm Hg): about 24 mmHg (25°C)
Vapor Density (Air = 1): about 0.6
Evaporation Rate (Butyl acetate = 1): not available
Solubility in Water: freely miscible with water
Appearance and Odor: Dark blue liquid with slightly sulfur odor
pH: 3.0 ~ 6.0

SECTION IV. - Fire and Explosion Hazard Data

Flash Point (Method Used): N.A.
Flammable Limits: LEL: N.A.  UEL: N.A.
Extinguishing Media: N.A.
Special Fire Fighting Procedures: N.A.
Unusual Fire and Explosion Hazards: N.A.

SECTION V. - Reactivity Data

Stability:

☐ Unstable
Condition to Avoid:
☐ Stable
Incompatibility (Materials to Avoid): Alkaline materials
Hazardous Decomposition or Byproducts: SOx on combustion of the polymer

Hazardous Polymerization:

☐ May Occur
Condition to Avoid:
☐ Will Not Occur

SECTION VI. - Health Hazard Data

Route(s) of Entry: ☐ Inhalation  ☐ Skin?  ☐ Ingestion?

Health Hazards (Acute and Chronic):

Acute toxicity
Acute Oral Toxicity: In a single oral dose test in CD rats, no death resulted at a dose level of 2,000 mg of Spacer 300/kg body weight.

Acute Dermal Irritation: No dermal irritation response was observed at the test site of rabbits at any time during 72 hour observation period. Spacer 3002 was classified as
Acute Eye Irritation: In a single ocular instillation of test in rabbits, the instillation of Expercer 3002 caused a very slight to moderate initial pain response.

Chronic toxicity: No test data have been obtained.

Carcinogenicity: NTP: No, IARC Monographs: No, OSHA Regulated: No

Signs and Symptoms of Exposure:
Direct contact may irritate eyes.
Mist inhalation may irritate respiratory passages.

Medical Conditions:
Generally Aggravated by Exposure
Unknown

Emergency and First Aid Procedures:
Skin contact: Wash the skin thoroughly with a lot of water with soap. Remove contaminated clothing immediately.
Eye contact: Flush eyes with low pressure water for at least 15 minutes.
Inhalation of mist: Remove the affected person to fresh air immediately.
Ingestion: In case of a small amount ingestion, wash a sign and symptom for some time. If symptoms are observed, seek medical aid immediately. In case of a large amount ingestion, immediately seek medical aid.

If symptoms not serious, immediately seek medical aid.

SECTION VII. -- Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled:
Wipe out with rags and incinerate the used rags. Wear protective rubber gloves and goggles at the time of the wipe and incineration.

Waste Disposal Method:
Fully observe the applicable laws and regulations.

Precautions to Be Taken in Handling and Storing:
Be sure to wear rubber gloves and goggles in handling the product.
Store the product at 5±3°C in a refrigerator.

Other Precautions:
Since the product has weak acidity and its toxicity has not been fully determined, the same handling precautions as those required for known acids like acetic acid should be exercised.

SECTION VIII. -- Control Measures

Respiratory Protection (Specify Type):
Not normally required for vapor

Ventilation:
☐ Local Exhaust: Not normally required for vapor
☐ Mechanical (General)
☐ Special
☐ Other

Protective Gloves:
Safety rubber gloves

Eye Protection:
Safety goggles

Other Protective Clothing or Equipment:
Eye bath

Work/Hygienic Practices:
Wash hands thoroughly with water after handling.

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