

Smil-o-Bond (Corrugation Gum A-100)

Introduction

Smil-o-Bond is a ready-mix corrugation Gum. It is specially developed for use in the corrugated paper packaging boards having the advantages of consistency and perfection in terms of quality. This gum is mainly used in complete automatic plants.

It is made of special adhesive grade starch and a special mix of chemicals. It is partially hydrolyzed starches that are prepared by roasting in the presence of different catalysts. This chemical and mechanical reaction reduces the large molecule size into small molecule and with maintained viscosity.

Specifications:

Description: Cream White Powder

Ratio: 1:4

Particle size: 80% pass through 80 Mesh

Moisture Content: 12% Max

Ash content: 2% Max

Viscosity: 20 to 25 seconds (measure in B4 cup)

PH: 7.5 – 11.0

Paste Clarity: Opaque

Delamination: No

Fermentation: No

Toxicity: No

Shelf life: One year

How To Use:

The ratio is 1:4 (1kg Smil-o-bond to 4 litres of Water). Take water in a container and stir it with a stirrer at 900-rpm. While the stirring is in progress, add Smil-o-Bond gradually into the vortex of water formed by stirrer. Continue the stirring for 15- 20 minutes.

The Smil-o-Bond to water ratio may however, be changed to ensure required viscosity depending on the gsm, quality of paper and single facer or double backer bonding.

Material Safety Data Sheet

Product Name: Smil-o-Bond (Corrugation Gum A-100)

1. Product Identification

Synonyms: Starch Adhesive, Corrugation Gum

Molecular Weight: It is polymer of Glucose (Approximate: More Than 4000)

2. Hazards Identification

Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Rated on the 1 to 10 scale as

Health rating: 0 – None

Flammability rating: 0 – Slight.

Reactivity rating: 0 – None

Contact rating: 0 – None

Lab protective equipment's: Goggles, Lab Coat, Hand gloves

Storage colour code: Orange (General Storage)

Potential Health Effect

- Inhalation: No adverse health effect expected from inhalation
- Ingestion: No adverse health effect expected from ingestion
- Skin contact: No adverse health effect expected
- Eye contact: No adverse health effect expected
- Chronic exposure: No information found
- Aggravation of pre-existing condition: No information found

3. First Aid Measures

- Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.
- Ingestion: If large volumes were swallowed, get medical assistance.
- Skin contact: Flush exposed area under running water and Wash exposed area with water. Get medical advice if irritation develops.
- Eye contact: Wash thoroughly with running water. Get medical assistance.

4. Fire Fighting Measures

Fire: As the most organic Liquids, pastes, and solids, fire is possible at elevated temperature or by contact with an ignition source.

Fire Extinguishing Media: Water spray, dry chemical, appropriate foam, or carbon dioxide.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (liquid, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: Not expected to require any special ventilation.

Personal Respirators (NIOSH Approved): Not expected to require personal Respirator usage.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles.

9. Physical and Chemical Properties

Appearance: Cream white Powder.

Odour: Typical Odour.

Solubility: Soluble in Water.

pH (10% Aqua. Solution): 7.5 – 11.0

Bulk Density: 0.55 to 0.65 grams per ml.

Viscosity: 20 to 25 seconds (measure in B4 cup)

Ignition Temperature: 380°C.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers.

Conditions to Avoid: Heat, ignition and incompatibles.

11. Toxicological Information

Acute effects

- May be harmful by inhalation, ingestion, or skin absorption.
- May cause irritation.
- Starch Toxicity Data: No information found

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with Federal, state and local requirements.

14. Transport Information

No special information found.

15. Regulatory Information

No special information is available.

16. Other Information

NFPA Ratings: Health: 0 Flammability: 1 Reactivity: 0

Label Hazard Warning:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Label Precautions: None.

Label First Aid: Not applicable.

Product Use: Used in Paper Industries.

Revision Information: No changes.