

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



SAFETY DATA SHEET (SDS)

Product Name: SB-INH01

Micronized Additive Blend for Corrosion Inhibitor Systems – Slow-Release VCI

1. Identification of the Substance/Mixture and of the Company/Undertaking

Field	Information
Product Name	SB-INH01
Relevant Identified Uses	Additive for corrosion inhibitor systems in films, sheets, paper coatings, and packaging.
Supplier	Polymer Add (Thailand) Co., Ltd
Office Address	106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
Factory Address	188/3, Moo 8, Bangpu Mai, Muang Samut Prakan, Samutprakan, Thailand 10280
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2. Hazards Identification

Field	Description
Classification	Not classified as hazardous under normal handling.
Hazards	<ul style="list-style-type: none">Dust may cause eye, skin, or respiratory irritation.Combustible dust hazard if dispersed in air.
Signal Word	None
Precautionary Statements	<ul style="list-style-type: none">Avoid inhalation of dust.Use adequate ventilation and dust control.Wear protective equipment (gloves, goggles, dust mask).

3. Composition/Information on Ingredients

Component	Function	% w/w	CAS No.
Sodium Benzoate	Primary corrosion inhibitor	50%	532-32-1
Zinc Benzoate	Secondary inhibitor	30%	553-72-0
GMS 90% (Glycerol Monostearate)	Lubricant/binder	20%	31566-31-1

SB-INH01-DU (Direct Use Blend with LDPE)

- Sodium Benzoate 40%
- Zinc Benzoate 24%
- GMS 90% 16%
- LDPE Resin 20% (CAS 9002-88-4)

SB-INH01-MB (Masterbatch with LLDPE)

- Sodium Benzoate 30%

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- Zinc Benzoate 18%
- GMS 90% 12%
- LLDPE Resin 40% (CAS 9003-07-0)

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if irritation persists.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse thoroughly with water. If irritation continues, seek medical help.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if large amounts are ingested.

5. Firefighting Measures

- **Extinguishing Media:** Water spray, dry chemical, CO₂, foam.
- **Special Hazards:** Dust may form explosive mixtures with air; thermal decomposition releases CO, CO₂, and metal oxides.
- **Protective Equipment:** Wear SCBA and protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation.
- **Environmental Precautions:** • Collect mechanically (vacuum or sweep).
- **Clean-Up Methods:** Prevent product from entering drains or natural watercourses. Use PPE (dust mask, gloves, goggles).

7. Handling and Storage

- **Handling:** Use with adequate ventilation. Minimize dust generation. Ground equipment to avoid static charge.
- **Storage:** Store in a cool, dry place (<35 °C). Avoid high humidity and direct sunlight.
- **Packaging:** 20 kg kraft paper bag with PE liner; optional foil-lined or vacuum-sealed drums.
- **Shelf Life:** 24 months if stored properly.

8. Exposure Controls / Personal Protection

Field	Information
Occupational Exposure Limits	Treat as nuisance dust (10 mg/m ³ total).
Engineering Controls	Local exhaust ventilation recommended.
PPE	<ul style="list-style-type: none">• Respiratory: Dust mask (N95/P2).• Eyes: Safety goggles.• Hands: Protective gloves.• Clothing: Protective workwear.

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9. Physical and Chemical Properties

Property	Value
Appearance	Fine white to off-white powder
Odour	Mild, characteristic
Moisture Content	<0.5%
Particle Size(D90)	< 10 µm
Bulk Density	0.35 – 0.45 g/cm ³
Melting / Softening	~65–75 °C (GMS); Sodium Benzoate stable up to 410 °C
Water Solubility	Sodium/Zinc benzoate soluble; GMS partially soluble.

10. Stability and Reactivity

- **Stability:** Stable under recommended storage.
- **Conditions to Avoid:** Excessive heat, humidity, ignition sources.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** CO, CO₂, benzoic acid vapors, zinc oxide fumes.

11. Toxicological Information

Test	Result
Acute Toxicity	Low; sodium/zinc benzoate are of low oral toxicity.
Skin/ Eye Irritation	Dust may cause mild irritation.
Inhalation	High dust levels may cause throat/respiratory irritation.
Chronic Effects	No evidence of carcinogenicity. Prolonged inhalation of nuisance dust may impair lung function.

12. Ecological Information

- **Aquatic Toxicity:** Low hazard at typical use concentrations.
- **Persistence/Degradability:** Sodium/zinc benzoate are biodegradable.
- **Bioaccumulation:** Not expected to bioaccumulate.
- **Mobility:** Water-soluble inhibitors may leach into soil/water.

13. Disposal Considerations

- **Product Waste:** Dispose of product and packaging according to local regulations.
- **Waste Disposal:** Avoid uncontrolled release to the environment
- **Packaging:** Landfill or incineration at approved facilities

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14. Transport Information

Mode	Remarks
UN Classification	Not regulated as dangerous goods.
ADR/RID/IMDG/IATA	Not a Marine Pollutant
Transport Precautions	No special precautions required

15. Regulatory Information

- **REACH:** All components comply with general industrial and polymer additive regulations.
- **CLP (EC No. 1272/2008):** Not classified
- **Inventories:** Not certified for direct food-contact or medical-grade applications. Ingredients listed in TSCA, REACH, and equivalent inventories.

16. Other Information – SB-INH01 MSDS v1.0

- **SDS Version: 1.0 / 2025**
- **Date of Preparation: August 2025**
- **Reason for Issue: First SDS issued for micronized technical blend**

Abbreviations:

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

LD₅₀ – Median Lethal Dose

EC₅₀ – Half Maximal Effective Concentration

Disclaimer:

Data is accurate to best knowledge but without warranty. Suitability for specific applications must be verified by user.

This SDS is provided for industrial handling and transportation purposes only. It does not serve as a product specification or guarantee. Polymer Add (Thailand) Co., Ltd shall not be held liable for misuse or mishandling. Final responsibility lies with the user.