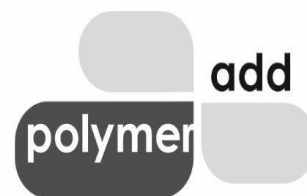


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

SB-INH01

Micronized Additive Blend for Corrosion Inhibitor Systems (Slow-Release VCI)

Variants: **SB-INH01-A** | **SB-INH01-DU** | **SB-INH01-MB**

PRODUCT CODE CLARIFICATION

SB-INH01-A	Additive-Only Powder
SB-INH01-DU	Direct Use Blend with LDPE
SB-INH01-MB	Masterbatch with LLDPE

PRODUCT DESCRIPTION

SB-INH01 is a micronized powder additive system designed for vapor corrosion inhibitor (VCI) applications in plastics, films, paper coatings, and polymer-based packaging systems. It provides slow-release protection against corrosion through a balanced combination of contact-phase and vapor-phase inhibitors. The blend also includes a lubricant-carrier to aid dispersion and minimize caking during handling.

SB-INH01-A — MICRONIZED ADDITIVE BLEND (ADDITIVE ONLY)

CHEMICAL NAME	FUNCTION	COMPOSITION	CAS
Sodium Benzoate	Primary corrosion inhibitor – contact phase protection	50.00%	532-32-1
Zinc Benzoate	Secondary corrosion inhibitor – multi-metal protection	30.00%	553-72-0
GMS 90% (Glycerol Monostearate)	Lubricant / binder – improves dispersion and flowability	20.00%	31566-31-1
TOTAL		100.00%	

SB-INH01-DU — MICRONIZED ADDITIVE BLEND + RESIN (DIRECT USE BLEND)

Suitable for direct film blending without compounding

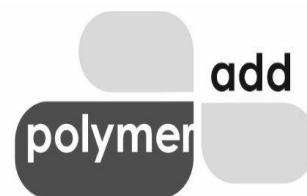
CHEMICAL NAME	FUNCTION	COMPOSITION	CAS
Sodium Benzoate	Primary corrosion inhibitor – contact phase protection	40.00%	532-32-1
Zinc Benzoate	Secondary corrosion inhibitor – multi-metal protection	24.00%	553-72-0

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GMS 90% (Glycerol Monostearate)	Lubricant / binder – improves dispersion and flowability	16.00%	31566-31-1
LDPE Resin	Resin matrix for direct film extrusion or blending	20.00%	9002-88-4
TOTAL		100.00%	

SB-INH01-MB — MICRONIZED ADDITIVE BLEND + RESIN (MASTERBATCH GRADE)

CHEMICAL NAME	FUNCTION	COMPOSITION	CAS
Sodium Benzoate	Primary corrosion inhibitor – contact phase protection	30.00%	532-32-1
Zinc Benzoate	Secondary corrosion inhibitor – multi-metal protection	18.00%	553-72-0
GMS 90% (Glycerol Monostearate)	Lubricant / binder – improves dispersion and flowability	12.00%	31566-31-1
LLDPE Resin	Carrier resin for masterbatch compounding	40.00%	9003-07-0
TOTAL		100.00%	

TYPICAL PROPERTIES

Property	Value / Description
Appearance	Fine white to off-white powder
Odour	Mild, characteristic
Particle Size (D90)	< 10 microns
Melting / Softening Range	~65–75 °C (GMS); SB stable up to 410 °C
Bulk Density	~0.35–0.45 g/cm ³
Compatibility	PET, PE, EVA, and polyolefin-based VCI films and sheets
Moisture Content	< 0.5%

REGULATORY & SAFETY INFORMATION

All components are compliant with general regulatory requirements for use in plastic packaging. However, suitability for food-contact or medical-grade applications must be validated separately. Refer to SDS for detailed safety, handling, and toxicological data.

APPLICATIONS

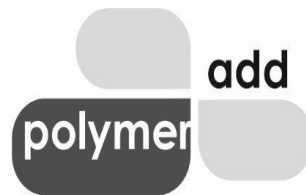
- VCI films for ferrous and non-ferrous metal packaging
- Anticorrosive masterbatches for PET/PE/EVA compounds

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- Corrosion-inhibitor coatings for industrial paper or paperboard
- Slow-release additives for VCI foams and molded parts

PROCESSING GUIDANCE

- Blend with base polymer or carrier resin at low shear mixing speed
- Pre-dry under low heat (40–50 °C) in a tray oven if ambient humidity >60%
- Avoid storage above 35 °C to minimize premature softening of GMS

PACKING INSTRUCTIONS

Packing Type	Description
Bag Type	Kraft Paper Bag with Inner PE Liner
Net Weight	20 Kg
Palletization	40 Bags per Pallet (800 Kg net weight)
Optional	Foil-lined drum or vacuum-sealed packs for extended storage
Labelling	Product Name, Code, Batch No., Mfg. Date, Expiry
Shelf Life	24 months in sealed, dry condition
Storage	Store in cool, dry environment; avoid sunlight and high humidity

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