

# 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](mailto:contact@polymeradd.co.th)



## SAFETY DATA SHEET (SDS)

**Product Name: SB-VCI01**

Micronized VCI Blend for Multi-Metal Corrosion Protection

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

Field	Information
Product Name	SB-VCI01
Synonyms	Micronized VCI Blend for Multi-Metal Corrosion Protection
Recommended Uses	Corrosion inhibitor blend for films, foams, molded parts, and paper coatings.
Manufacturer	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
Mobile (Thai)	0804531391
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### 2. Hazards Identification

Field	Description
Classification(GHS)	Not classified as hazardous under GHS criteria.
Hazards	<ul style="list-style-type: none"><li>Dust may cause mechanical irritation to eyes, skin, or respiratory tract.</li><li>Combustible dust hazard if dispersed in air.</li></ul>
Signal Word	None
Precautionary Statements	<ul style="list-style-type: none"><li>Avoid inhalation of dust.</li><li>Provide local exhaust ventilation.</li><li>Wear protective gloves, goggles, and dust mask</li></ul>

### 3. Composition/Information on Ingredients

Component	Function	% w/w	CAS No.
Sodium Benzoate	Base corrosion inhibitor	55%	532-32-1
Dicyclohexylammonium Benzoate	Vapor-phase inhibitor	25%	53540-12-8
Morpholinium Benzoate	Fast-acting vapor-phase inhibitor	19.7%	31138-65-5
Hydrophobic Fumed Silica	Anti-caking	0.3%	63231-67-4

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## SB-VCI01-DU (Direct Use Blend with LDPE)

- Sodium Benzoate 44%
- DCHA Benzoate 20%
- Morpholinium Benzoate 16%
- Hydrophobic Fumed Silica 0.3%
- LDPE Resin 19.7% (CAS 9002-88-4)

## SB-VCI01-MB (Masterbatch with LLDPE)

- Sodium Benzoate 33%
- DCHA Benzoate 15%
- Morpholinium Benzoate 10.7%
- Hydrophobic Fumed Silica 0.3%
- LLDPE Resin 41% (CAS 9003-07-0)

## 4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if irritation continues.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if large amounts are ingested.

## 5. Firefighting Measures

- **Extinguishing Media:** Water spray, foam, dry chemical, CO<sub>2</sub>.
- **Special Hazards:** Combustion may produce CO, CO<sub>2</sub>, nitrogen oxides, and organic vapors. Dust may form explosive mixtures with air.
- **Protective Equipment:** Firefighters should wear SCBA and full protective clothing.

## 6. Accidental Release Measures

- **Personal precautions:** Avoid dust formation and inhalation.
- **Environmental precautions:** Dispose of in closed containers according to local regulations.
- **Clean-up methods:** Prevent entry into drains and natural waterways.

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## 7. Handling and Storage

- **Handling:** Ensure proper ventilation. Avoid generating airborne dust. Ground equipment to prevent static charge.
- **Storage:** Store in a cool, dry area away from sunlight and humidity.
- **Packaging:** 20 kg kraft paper bags with PE liner; optional foil-lined drums or vacuum packs.
- **Shelf Life:** 24 months under sealed, dry storage

## 8. Exposure Controls / Personal Protection

Field	Information
Occupational exposure limits (dust)	None established; treat as nuisance dust (10 mg/m <sup>3</sup> total).
Engineering Controls	Use local exhaust ventilation.
PPE	<ul style="list-style-type: none"><li>• Respiratory: Dust mask (N95/P2).</li><li>• Eyes: Safety goggles.</li><li>• Hands: Protective gloves.</li><li>• Clothing: Protective workwear.</li></ul>

## 9. Physical and Chemical Properties

Property	Value
Appearance	Fine white to light beige powder
Odour	Mild to amine-like
Melting Range	190 – 410 °C (multi-phase)
Particle Size (D100)	<10 µm
Moisture Content	< 0.5%
Bulk Density	0.35 – 0.45 g/cm <sup>3</sup>
Water Solubility	Sodium benzoate soluble; amine benzoates partly soluble; silica insoluble.

## 10. Stability and Reactivity

- **Stability:** Stable under recommended storage.
- **Conditions to Avoid:** High heat, humidity, ignition sources.
- **Incompatible Materials:** Strong oxidizing agents, strong acids.
- **Decomposition Products:** CO, CO<sub>2</sub>, benzoic acid vapors, nitrogen oxides.

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## 11. Toxicological Information

Test	Result
Acute Toxicity	Low toxicity expected from components.
Skin/ Eye Irritation	Dust may cause mild irritation.
Inhalation	Prolonged inhalation of dust may irritate respiratory tract.
Chronic Effects	Long-term exposure to dust may impair lung function.
Carcinogenicity	None of the listed ingredients are classified as carcinogens (IARC, OSHA, NTP).

## 12. Ecological Information

- **Aquatic Toxicity:** Low hazard at typical concentrations.
- **Persistence/Degradability:** Benzoates are biodegradable.
- **Bioaccumulation:** Not expected to bioaccumulate.
- **Mobility:** Water-soluble inhibitors may leach; silica remains in soil.

## 13. Disposal Considerations

- **Product/packaging:** Dispose of product and packaging in accordance with local, national, and regional regulations.
- **Waste Disposal:** Suitable for landfill or controlled incineration. Avoid uncontrolled release to the environment.

## 14. Transport Information

Mode	Remarks
UN Classification	Not classified as dangerous goods (ADR/IMDG/IATA).
Special precautions	Keep packaging intact, prevent dust release.

## 15. Regulatory Information

- **Classification:** All components comply with general industrial chemical and polymer
- **Inventories:** Not approved for direct food-contact or medical-grade use. Ingredients listed on TSCA, REACH, and comparable inventories.

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## 16. Other Information

**Document Ref:** SB-VCI01

**Issue Date:** August 2025

**Prepared by:** Polymer Add Thailand

**Recommended dosage:** 1.0–5.0 wt% in PE formulations.

**Packaging:** 10 kg PE-lined kraft bags; optional 5 kg HDPE sealed; 500 kg/pallet.

**Disclaimer:** Data are provided for safe handling. Performance must be verified by user in end-application

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.