

# Material Safety Data Sheet

## Antioxidant B900

### 1. Identification

**Product identifier used on the label**

**Antioxidant B900**

**Recommended use of the chemical and restriction on use**

Recommended use\*: additive for the plastics industry

Unsuitable for use: This material is not intended for use in products for which prolonged contact with mucous membranes, body fluids or abraded skin, or implantation within the human body, is specifically intended, unless the finished product has been tested in accordance with nationally and internationally applicable safety testing requirements. Because of the wide range of such potential uses, we are not able to recommend this

**Details of the supplier of the safety data sheet**

Dongguan Baoxu Chemical Technology.,Ltd.

Address: caijing business Bldg DongGuan CN 523071

Tel 0769 22821082 Fax 86 0769 22821083

Website:www.additivesforpolymer.com

Email:info@additivesforpolymer.com

**Other means of identification**

Chemical family: Mixture of additives for plastic material stabilization

### 2. Hazards Identification

**According to Hazardous Products Regulations (HPR) (SOR/2015-17) Classification of the product**

Combustible Dust Combustible Dust (1) Combustible Dust

**Label elements**

Signal Word:

Warning

Hazard Statement:

**Hazards not otherwise classified**

The product is under certain conditions capable of dust explosion.

**3. Composition / Information on Ingredients**

**According to Hazardous Products Regulations (HPR) (SOR/2015-17)**

This product does not contain any components classified as hazardous under the referenced regulation.

**4. First-Aid Measures**

**Description of first aid measures**

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention.

**If on skin:**

Wash thoroughly with soap and water.

If irritation develops, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

**If swallowed:**

If swallowed, drink plenty of water. Do not induce vomiting. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Further important symptoms and effects are so far not known.

**Indication of any immediate medical attention and special treatment needed**

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## **5. Fire-Fighting Measures**

### **Extinguishing media**

Suitable extinguishing media: dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

### **Special hazards arising from the substance or mixture**

Hazards during fire-fighting: harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### **Advice for firefighters**

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### **Further information:**

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

### **Impact Sensitivity:**

Assessment: no

## **6. Accidental release measures**

Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

### **Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Use personal protective clothing.

### **Environmental precautions**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

## **7. Handling and Storage**

### **Precautions for safe handling**

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Dust explosion class: Dust explosion class 2 (Kst-value 200 up to 300 bar m s<sup>-1</sup>).

#### **Conditions for safe storage, including any incompatibilities**

No applicable information available.

Further information on storage conditions: Keep container tightly closed and dry; store in a

### **8. Exposure Controls/Personal Protection**

No occupational exposure limits known.

#### **Advice on system design:**

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

#### **Personal protective equipment Respiratory protection:**

Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided.

#### **Hand protection:**

Wear chemical resistant protective gloves.

#### **Eye protection:**

Safety glasses with side-shields.

#### **Body protection:**

### **9. Physical and Chemical Properties**

Form:	powder, crystalline
Odour:	odourless
Odour threshold:	No applicable information available.

pH value:	insoluble	
Melting point:	60 °C	
Boiling point:	not applicable	
Sublimation point:	No applicable information available.	
Flash point:	not applicable, the product is a solid	
Flammability:	not flammable	
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition:	380 °C	(BAM)
Vapour pressure:	The product has not been tested.	
Bulk density:	approx. 360 kg/m <sup>3</sup>	
Partitioning coefficient n-octanol/water (log Pow):	Study scientifically not justified.	
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	> 350 °C (dynamic (Lutolf oven)) > 60 °C (VDI 2263, sheet 1, 1.4.1)	
Viscosity, dynamic:	not determined	
% volatiles:	0.5 % VOC concentration >0, <=3%	
Solubility in water:	insoluble	
Evaporation rate:	The product is a non-volatile solid.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties: not fire-propagating

Dust explosion class:

Dust explosion class 2 (Kst-value 200 up to 300 bar m s<sup>-1</sup>) (St 2)

Minimum ignition energy:

No data available.

Reactions with water/air:	Reaction with:	water
	Flammable gases:	no
	Toxic gases:	no
	Corrosive gases:	no
	Smoke or fog:	no
	Peroxides:	no

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Reaction with:

Flammable gases:

Toxic gases:

Corrosive gases:

Smoke or fog:

Peroxides:

### **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

Peroxides: 0 %

The product does not contain peroxides.

### **Possibility of hazardous reactions**

Dust explosion hazard.

### **Conditions to avoid**

Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.

### **Incompatible materials**

strong acids, strong bases, strong oxidizing agents

### **Hazardous decomposition products**

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

## **11. Toxicological information**

### **Primary routes of exposure**

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### **Acute Toxicity/Effects**

Acute toxicity

Assessment of acute toxicity: No known acute effects.

Oral

Type of value: LD50 Species: rat Value: > 2,000 mg/kg

Inhalation not determined

#### Dermal

Type of value: LD50 Species: rat Value: > 2,000 mg/kg

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

#### Skin

Species: rabbit Result: non-irritant

#### Eye

Species: rabbit Result: non-irritant

#### Sensitization

Assessment of sensitization: Human data do not fully exclude a skin sensitizing potential.

Skin sensitizing effects were not observed in animal studies.

Result: Non-sensitizing.

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: May affect the liver as indicated in animal studies.

Experimental/calculated data: rat gavage 28 days

NOAEL: > 300 mg/kg

rat oral feed 104 weeks

NOAEL: > 5000 ppm

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Genetic toxicity

Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect. Carcinogenicity

Assessment of carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

#### Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

#### Other Information

The statements are based on the properties of the individual components.

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Further important symptoms and effects are so far not known.

## 12. Ecological Information

### Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

**Persistence and degradability** Assessment biodegradation and elimination (H<sub>2</sub>O)

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Elimination information

Not readily biodegradable (by OECD criteria).

**Bioaccumulative potential** Bioaccumulation potential

Accumulation in organisms is not to be expected. The product has not been tested. The statement has been derived from the properties of the individual components.

### Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. At the present state of knowledge, no negative ecological effects are expected.

## 13. Disposal considerations

### Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

### Container disposal:

Dispose of in accordance with national, state and local regulations. Recommend crushing,

## 14. Transport Information

### Land transport

TDG

Not classified as a dangerous good under transport regulations



**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

**15. Regulatory Information****VOC content:**

VOC concentration &gt;0, &lt;=3%

**Federal Regulations Registration status:**

Chemical                  DSL, CA released / listed

**16. Other Information**