

**CALCIUM BIS MONOETHYL-(3,5-DI-TERTBUTYL-4-HYDROXYBENZYL) PHOSPHONATE + PE WAX**

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### 1.1 Product identifiers

CAS NO. 65140-91-2+9002-88-4

1. It is used as an antioxidant in a polyethylene wax carrier for polypropylene fibers.
2. It is also used in polyesters, cross linking elastomers, specialty adhesives, natural and synthetic resins.

**COMPANY**

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### 2.1 Classification of the substance or mixture

Environment

STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity " single exposure
Dust Explosion Class: Dust Explosion Class 2	Kst-value 200 up to 300 bar m s-1) (St 2)	Formation of Flammable Gases Start: 220 Degrees C

### Signal word

Hazard Statement

H335	May cause respiratory irritation.
Dust Explosion Class	Dust Explosion Class 2 (Kst-value 200 up to 300 bar ms-1)
Formation of Flammable Gases	Start Temperature 220 Degrees C

P271	Use only outdoors or in a well-ventilated area
P260	Do not breathe dust/gas/mist/vapours
P312	Call a POISON CENTER or doctor/physician if

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P304 + P340	you feel unwell.
P403 + P233	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P405	Store in a well-ventilated place. Keep container tightly closed.
P501	Store locked up
	Dispose of contents/container in accordance with local regulations.

The product is under certain conditions capable of dust explosion.

2.3	Other hazards	The product is under certain conditions capable of dust explosion. Dust Explosion Class: Dust Explosion Class 2 Kst-value 200 up to 300 bar m s-1) (St 2) Formation of Start Temperature : 220 Degrees C
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## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Component	AO <sub>1425</sub>
Chemical Name	CALCIUM BIS[MONOETHYL(3,5-DI-TERT-BUTYL-4-HYDROXYBENZYL)PHOSPHONATE
CAS NO	65140-91-2
EC Number	265-512-0
Molecular Formula	C34H56O8P2Ca (Active component)
Molecular Weight	695 g/mol.
Concentration	50%
Component	PE WAX
Chemical Name	POLYETHYLENE WAX
CAS NO	9002-88-4
EC Number	200-815-3
Molecular Formula	C2H4
Molecular Weight	28.0536
Concentration	50%

## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Remove contaminated clothing.

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<b>If inhaled</b>	Keep patient calm, remove to fresh air, seek medical attention.
<b>In case of skin contact</b>	Wash thoroughly with soap and water. If irritation develops, seek medical attention.
<b>In case of eye contact</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.
<b>If swallowed</b>	Rinse mouth immediately with water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting due to aspiration hazard. Seek medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

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.

#### 4.3 Indication of any immediate medical attention and special treatment needed

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

## 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Suitable extinguishing media: dry powder, foam. Unsuitable extinguishing media for safety reasons: carbon dioxide
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### 5.2 Special hazards arising from the substance or mixture

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

### 5.3 Advice for firefighters

Hazards during fire-fighting: harmful vapours  
Evolution of fumes/fog.  
The substances/groups of substances mentioned can be released in case of fire.

### 5.4 Further information

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.  
Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions protective equipment and emergency procedures

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.

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#### 6.2 Environmental precautions

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

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container regulations.  
Keep in suitable, closed containers for disposal.  
Non sparking tools should be used.  
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.

#### 6.4 Reference to other sections

No data available.

## 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.  
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.  
Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing.

#### 7.2 Information about protection against explosions and fires

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

#### 7.3 Conditions for safe storage including any incompatibilities

Keep container tightly closed and dry; store in a cool place.  
The packed product is not damaged by low temperatures or by frost.  
The packed product will not be damaged by high temperatures.

#### 7.4 Specific end use(s)

No data available.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### 8.2 Exposure control

No occupational exposure limits known.

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#### Appropriate engineering controls

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.

#### Technical measures/Precautions

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

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures for handling chemicals should be followed.

#### Eye/face protection

Safety glasses with side-shields.

#### Hands protection

Wear chemical resistant protective gloves.

#### Skin protection

Handle with gloves.

Gloves must be inspected prior to use.

Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of Contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

#### Body Protection

No skin protection is ordinarily required under normal conditions of use.

In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Body protection must be chosen based on level of activity and exposure.

#### Respiratory protection

Breathing protection if breathable aerosols/dust are formed.

Wear respiratory protection if ventilation is inadequate.

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance

White to off white Powder

b) Odour

Odourless

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c)Odour Threshold	No applicable information available.
d)pH (% solution in water)	5.3 at 20-25 degrees C as suspension.
e)Melting point/freezing point	> 260 Deg C
f)Initial boiling point and boiling range	not applicable.
g)Flash point	> 150 Deg C (DIN 51758, closed cup)
h)Evaporation rate	The product is a non-volatile solid.
i)Flammability (solid or gas)	not highly flammable. Auto Ignition: 430-500 degrees C
j)Upper/lower flammability or explosive limits	Not relevant for classification & labeling.
k)Vapour pressure	< 0.0000001 Pa at 20 degrees C
l)Vapour density	1.21 g/cm <sup>3</sup> at 20 degrees C
m)Relative density	Molar Mass: 348.43 g/mol
n)Water solubility	2.4 g/l ( 20 - 25 degrees C)
o)Partition coefficient: n-octanol/water	-0.08
p)Autoignition temperature	>271 degrees C (Directive 92/69/EEC, A.16)
q)Decomposition temperature	370 degrees C (DSC (OECD 113)
r)Viscosity	No relevant data available.
s)Explosive properties	No relevant data available.
t)Oxidizing properties	No relevant data available.

## 9.2 Other safety information

Bulk Density	300-600 kg/m <sup>3</sup>
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## 10 STABILITY AND REACTIVITY

10.1 Reactivity	The product is stable. Avoid dust formation.
10.2 Chemical stability	The product is stable if stored and handled as prescribed/indicated.
10.3 Possibility of hazardous reactions	No hazardous reactions if stored and handled as prescribed/indicated.
10.4 Conditions to avoid	Dust formation, Heat, flames and sparks. Extremes of temperature and direct sunlight.
10.5 Incompatible materials	Acids, Bases, Oxidizing agents, Reducing agents, Alkali metals.
10.6 Hazardous decomposition products	No hazardous decomposition products if stored

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and handled as prescribed/indicated. Thermal  
Decomposition : 370 Å°C (DSC (OECD 113))

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute toxicity</b>	Assessment of acute toxicity: Virtually nontoxic after a single ingestion.
<b>Acute oral toxicity</b>	Type of value: LD50 Species: rat Value: > 5,000 mg/kg (similar to OECD guideline 401)
<b>Acute Inhalation toxicity</b>	Virtually nontoxic by inhalation. Inhalation Type of value: LC50 Species: rat Value: > 2.35 mg/l (similar to OECD guideline 403) Exposure time: 4 h
<b>Acute dermal toxicity</b>	Not determined.
<b>Acute Irritation / corrosion toxicity</b>	Assessment of STOT single: Causes temporary irritation of the respiratory tract. Assessment of irritating effects: Irritating to respiratory system. Prolonged exposure to the product can result in irritation of the skin and mucous membranes.
<b>Skin corrosion/irritation</b>	Non Irritant( skin)- Species: rabbit Result: non-irritant Method: Draize test
<b>Serious eye damage/eye irritation</b>	Non Irritant (Eye)- Species: rabbit Result: non-irritant Draize test
<b>Respiratory or skin sensitization</b>	Based on the ingredients, there is no suspicion of a skin-sensitizing potential. Species: guinea pig Result: Non-sensitizing. Method: OECD Guideline 406
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	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.
<b>IARC</b>	No relevant data available.
<b>Reproductive toxicity</b>	Assessment of reproduction toxicity: Repeated oral uptake of the substance did not cause damage to the reproductive organs.
<b>Specific target organ toxicity - single exposure</b>	No relevant data available.
<b>Specific target organ toxicity - repeated exposure</b>	No relevant data available.

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<b>Signs and symptoms of exposure</b>	No relevant data available.
<b>Route of exposure</b>	No relevant data available.
<b>Aspiration hazard</b>	No aspiration hazard expected.
<b>Potential health effects</b>	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.
<b>Inhalation</b>	No relevant data available.
<b>Ingestion</b>	No relevant data available.
<b>Skin</b>	No relevant data available.
<b>Eyes</b>	No relevant data available.
<b>RTECS</b>	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

12.1 Toxicity	Assessment of aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Toxicity to fish	Toxicity to fish LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Aquatic invertebrates EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)
Toxicity to Algae/Aquatic plants	EC50 (72 h) > 100 mg/l, Scenedesmus sp
Toxicity to microorganisms	OECD Guideline 209 activated sludge/EC50 (3 h): > 100 mg/l

## 12.2 Persistence and degradability

### Biodegradation

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.  
(OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Non-biodegradable.  
In contact with water the substance will hydrolyse slowly.

12.3 Bio accumulative potential	Does not significantly accumulate in organisms. Bioconcentration factor: 38
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12.4	Mobility in soil	The substance will not evaporate into the atmosphere from the water surface.
12.5	Results of PBT and vPvB assessment	No data available.
12.6	Other adverse effects	Do not discharge product into the environment without control.

## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Do not discharge into drains/surface waters/groundwater.

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

#### Contaminated packaging

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

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14 TRANSPORT INFORMATION

### 14.1 UN number

#### ADR/RID

NON HAZARDOUS

#### IMDG

NON HAZARDOUS

#### IATA

NON HAZARDOUS

### 14.2 UN proper shipping name

#### ADR/RID

-

#### IMDG

-

#### IATA

-

### 14.3 Transport hazard class(es)

#### ADR/RID

-

#### IMDG

-

#### IATA

-

### 14.4 Packaging group

#### ADR/RID

-

#### IMDG

-

#### IATA

-

### 14.5 Environmental hazards

#### ADR/RID

-

#### IMDG Marine pollutant

-

#### IATA

-

### 14.6 Special precautions for user

No data available

## 15 REGULATORY INFORMATION

No data available

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**15.1 Safety health and environmental regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**16 OTHER INFORMATION**

Month of Creation

March 2023

Month of Revision

March 2027