

## Safety Data Sheet

### BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE

Revision date :

Page: 1/7

Version : 3.0

NUMBER

## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Chemical Name	BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE
CAS NO.	154862-43-8

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

1. It is widely used in high temperature engineering plastics such as PC, PA66, PET and PBT to replace conventional low molecular weight phosphite antioxidants
2. It shows excellent hydrolytic stability ( above 240 degrees C) without the addition of inert products or triisopropanol amine. Shows similar color performance as seen in other pentaerythritol diphosphites

### Details of the supplier of the safety data sheet

<b>COMPANY</b>	POLYMER ADD (THAILAND) CO., LTD. 106, Chalarempriat, Lor 9, Soi 22, Yak 5,Nongbon, Prawet,Bangkok Bangkok - 10250 Thailand Telephone : 0804531391 Email - contact@polymeradd.co.th
----------------	--

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Human Health	Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335
--------------	---

### 2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

#### Pictogram



#### Signal word

Warning

H315

Causes skin irritation

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/  
spray.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for  
several minutes. Remove contact lenses.

**According to European Directive 67/548/EEC  
as amended**

none

## Safety Data Sheet

### BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE

Revision date :

Page: 2/7

Version : 3.0

NUMBER

2.3 Other hazards none

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

#### Component

<b>Chemical Name</b>	3,9-Bis(2,4-dicumylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro [5.5]undecane
<b>CAS NO</b>	154862-43-8
<b>EC Number</b>	421-920-2
<b>Molecular Formula</b>	C <sub>53</sub> H <sub>58</sub> O <sub>6</sub> P <sub>2</sub>
<b>Molecular Weight</b>	852.96
<b>Concentration</b>	<= 100 %

## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician.

Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air.  
If not breathing, give artificial respiration.  
Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water.  
Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person.  
Rinse mouth with water.  
Consult a physician.

### 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 2.2) and/or in section 11

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

No data available

## 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

## Safety Data Sheet

### BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE

Revision date :

Page: 3/7

Version : 3.0

NUMBER

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Oxides of phosphorus

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

#### 5.4 Further information

No data available

## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions protective equipment and emergency procedures

Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing vapours, mist or gas.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Avoid breathing dust.  
For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains

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

Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13

## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.  
Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.  
For precautions see section 2.2

### 7.2 Information about protection against explosions and fires

No data available

### 7.3 Conditions for safe storage including any incompatibilities

Store in cool place.  
Keep container tightly closed in a dry and well-ventilated place.

### 7.4 Specific end use(s)

## Safety Data Sheet

### BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE

Revision date :

Page: 4/7

Version : 3.0

NUMBER

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Appropriate engineering controls

Wash hands before breaks and at the end of workday.

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Gloves must be inspected prior to use.

#### Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

#### Control of environmental exposure

Do not let product enter drains.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

a)Appearance	off-white powder
b)Odour	No data available
c)Odour Threshold	No data available
d)pH (% solution in water)	No data available
e)Melting point/freezing point	229 - 232 °C - lit.
f)Initial boiling point and boiling range	No data available
g)Flash point	No data available
h)Evaporation rate	No data available
i)Flammability (solid or gas)	No data available
j)Upper/lower flammability or explosive limits	No data available
k)Vapour pressure	No data available
l)Vapour density	No data available

## Safety Data Sheet

### BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE

Revision date :

Page: 5/7

Version : 3.0

NUMBER

m)Relative density	No data available
n)Water solubility	No data available
o)Partition coefficient: n-octanol/water	No data available
p)Autoignition temperature	No data available
q)Decomposition temperature	No data available
r)Viscosity	No data available
s)Explosive properties	No data available
t)Oxidizing properties	No data available

#### 9.2 Other safety information

Bulk Density	No data available
--------------	-------------------

#### 10 STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong oxidizing agents, acids
10.6 Hazardous decomposition products	Other decomposition products - No data available

#### 11 TOXICOLOGICAL INFORMATION

##### 11.1 Information on toxicological effects

Acute toxicity	No data available
Acute oral toxicity	No data available
Acute Inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

**IARC**  
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Safety Data Sheet

### BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE

Revision date :

Page: 6/7

Version : 3.0

NUMBER

<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	Inhalation - May cause respiratory irritation
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>RTECS</b>	Not available

#### Signs And Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12 ECOLOGICAL INFORMATION

12.1	Toxicity	No data available
12.2	<b>Persistence and degradability</b>	
	<b>Biodegradation</b>	
	No data available	
12.3	Bio accumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6	Other adverse effects	No data available

## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

## 14 TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID	IMDG	IATA
-	-	-

### 14.2 UN proper shipping name

## Safety Data Sheet

### BIS(2,4-DICUMYLPHENYL) PENTAERYTHRITOL DIPHOSPHITE

Revision date :

Page: 7/7

Version : 3.0

NUMBER

#### ADR/RID

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

#### 14.3 Transport hazard class(es)

##### ADR/RID

-

##### IMDG

-

##### IATA

-

#### 14.4 Packaging group

##### ADR/RID

-

##### IMDG

-

##### IATA

-

#### 14.5 Environmental hazards

##### ADR/RID

no

##### IMDG Marine pollutant

no

##### IATA

no

#### 14.6 Special precautions for user

No data available

### 15 REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 15.2 Chemical Safety Assessment

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

### 16 OTHER INFORMATION

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

Month of Creation

July 2020

Month of Revision

July 2023