## Safety Data Sheet

Release	1.1
Revision	12/17/2020
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# BIOSYNTH® Carbosynth

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1 Identification of th	e substance
1.1 Product ident	ifier
Identification of the	e Bis(2,4,4-trimethylpentyl)phosphinic acid
substance	
Additional identific	ation
Cataloge Number	FB32351
REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.
1.2 Relevant iden Identified uses	tified uses of the substance or mixture and uses advised against other biochemicals
Restriction on use	not for food or drug use, for laboratory use only
1.3 Details of the	supplier of the safty data sheet
Company	Carbosynth Ltd
	8&9 Old Station Business Park
	COMPTON RG20 6NE
Phone	+44 1635 578444
Mail	customerservice@biosynth-carbosynth.com
1.4 Emergency te	
Phone	24hr/7days: +44 118 338 8269
2.2 Label element Regulatory List EC1272/08 Symbol GHS07	egory 2), H319 <b>azards</b> oxicity (Category 2), H411
Pictogram	
GHS09	environmental hazards
Pictogram	
<b>Signal Word</b> Warning	Warning
Hazard Statemen	
H315	Causes skin irritation.
H319	Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary Statement**

P264	Wash thoroughly after handling.	

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Remove contact lenses, if possible.

#### 2.3 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

#### 3 Composition/information on ingredients

Substance related information				
Substance name	Bis(2,4,4-trimethylpentyl)phosphinic acid			
Synonyms				
Cas No.	[83411-71-6]			
Formula	$C_{16}H_{35}O_2P$			

#### 4 First aid measures

#### 4.1 Description of first aid measures

#### First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

#### First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

#### First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

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

#### Hints for Physician: Symptoms

See Section 11 for additonal information on health hazards

#### **4.3 Indication of any immediate medical attention and special treatment needed First Aid: Inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

#### **Hints for Physician: Treatment** Treat symptomatically.

#### 5 Firefighting measures

#### 5.1 Extinguishing Media

### Suitable

foam, dry extinguishing powder, carbon dioxide (CO2), water spray jet

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

Wear a self-contained breathing apparatus and chemical protective clothing.

## Hazards During Fire-Fighting

toxic fumes

#### 5.3 Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

#### 6 Accidental release measures

#### 6.1 Personal Precautions, potective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

#### **6.2 Environmental Precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

6.3 Methods and material for containment and cleaning up

not available

#### 6.4 Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

#### 7 Handling and storage

#### 7.1 Precautions for safe handling

#### Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

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

Storage temperature

## store at 10°C - 25°C **Storage condition**

close container well

#### Storage Requirements

Keep container tightly closed in an upright position to prevent leakage. Keep away from incompatible substances. Store in a cool, dry, well-ventilated area away from incompatible substances.

#### 7.3 Specific end use(s)

#### 8 Exposure controles/personal protection

#### 8.1 Exposure limit values

Does not contain any substances with occupational exposure limits.

#### 8.2 Exposure controles

#### Industrial Hygiene

Mechanical exhaust required. Safety shower and eye shower.

#### 8.3 Personal Protective Equipment

#### **Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

#### **Hand Protection**

Wear compatible chemical-resistant gloves to prevent skin exposure.

#### **Eye Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

#### **Body Protection**

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

#### Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

#### 9 Physical and chemical properties

#### 9.1 Information on basic Physical and chemical color properties

*Color* colorless

Form clear liquid

Phase Transition Liquid/Gas 417.10 °C

Density 0.92 g/cm3

Flash Point 108.00 °C

#### 9.2 Other information

*Molar Mass* 290.42 g/mol

#### FB32351

## 10 Stability and reactivity

**10.1 Reactivity** No Data Available

**10.2 Chemical stability** No Data Available

**10.3 Possibility of hazardous reaction** No Data Available

**10.4 Conditions to Avoid (SDS)** incompatible materials

**10.5 Incompatible materials** strong oxidizers

**10.6 Hazardous decomposition products** phosphorus oxides, carbon dioxide (CO2), carbon monoxide

#### 11 Toxicological information

**11.1 Information on toxicological effects Other Relevant Toxicity Information** We are not aware of any toxicology data.

#### **12 Ecological Information**

#### 12.1 Toxicity

Acute toxicity versus Fishing	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available
Acute toxicity in aquatic plants	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available
Acute toxicity versus Daphnia and others aquatic invertebrates	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available	No data available	No data available	No data available	No data available

12.2 Persistence and degradablity Remarks : no data available
12.3 Bioaccumulative potential Remarks : no data available
12.4 Mobility in soil no data available
12.5 Results of PBT and vPvB assessment no data available
12.6 Other adverse effects Memo : Toxic to aquatic life.

#### 13 Disposal considerations Advice on Disposal and Packaging

Advice on Disposal Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging not available

#### 14 Transport information

	Road Transport(ADR/GGVS)	Air Transport(IATA)
14.1 UN number	3082	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Bis(2,4,4- trimethylpentyl)phosphinic acid)	Environmentally hazardous substance, liquid, n.o.s. (Bis(2,4,4- trimethylpentyl)phosphinic acid)
14.3 Transport hazard class(es)	9	9
14.4 Packing group	111	111
14.5 Enviromental hazard class (es)	Hazards identified	Hazards identified
14.6 Special precautions for user	Passage through tunnels of category E is forbidden.	Not applicable
14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code	Not applicable	Not applicable

#### 15 Other regulations

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixturet

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Bis(2,4,4- trimethylpentyl) phosphinic acid			

#### Regulatory List

AREC, DŚL, ECL, EINECS, IECSC, NZIOC, PICCS, TCSI, TSCA

#### 15.2 Chemical safty assessment

No chemical safety assessment has been carried out.

#### **16 Additional information**

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