according to Regulation (EC) No. 1907/2006

# Daplen™ EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Daplen EH228AE-9555

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

Use of the : Raw material for plastics industry

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Supplier : Borealis AG

Trabrennstrasse 6-8, 1020 Vienna, Austria

Telephone: +43 1 22400 0

E-mail address : sds@borealisgroup.com

1.4 Emergency telephone number

+44 (0) 1235 239 670 (NCEC Carechem 24)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### **Additional Labelling**

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Daplen is a trademark of the Borealis group.



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The product burns, but is not classified as flammable. Dust from the product gives a potential risk for dust explosion.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
titaniumdioxide	13463-67-7 236-675-5 01-2119489379-17	Carc. 2; H351	>= 0,1 - < 1
bis(2,2,6,6-tetramethyl-4- piperidinyl)decanedioate	52829-07-9 258-207-9	Eye Dam. 1; H318 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 2; H411  M-Factor (Acute aquatic toxicity): 1	>= 0,1 - < 0,25
Substances with a workplace exposure limit :			
magnesium silicate	14807-96-6 238-877-9		>= 20 - < 30

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

If inhaled : Move to fresh air.

In case of skin contact : If molten material comes in contact with the skin, cool with

plenty of water. DO NOT remove solidified product, as

removal could result in severe tissue damage.





## SAFFTY DATA SHFFT

according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

Obtain medical attention.

In case of eye contact : Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed : Rinse mouth with water.

Consult a physician if necessary.

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

: Inhalation of dust may irritate the respiratory tract. **Symptoms** 

Prolonged inhalation of high doses of decomposition products

may give headache or irritation of the respiratory tract.

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

Treatment : Treat symptomatically.

No specific instructions needed.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media : Water in spread jet, dry chemicals, foam or carbon dioxide.

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

Specific hazards during

firefighting

: Principal toxicant in the smoke is carbon monoxide.

#### 5.3 Advice for firefighters

for firefighters

Special protective equipment : Wear self-contained breathing apparatus and protective suit.

#### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Ensure adequate ventilation.

#### 6.2 Environmental precautions

Should not be released into the environment.

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

prevent accidental release of plastics in to the environment.

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

Vacuum or sweep up spill.

All spill of material must be removed immediately to prevent slipping accidents.

Recycle or dispose loose material properly.

Do not flush into surface water or sanitary sewer system.

#### 6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

## **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Advice on safe handling : During processing and thermal treatment of the product, small

amounts of volatile hydrocarbons may be released.

Provide adequate ventilation.

Local exhaust ventilation may be necessary. Avoid inhalation of dust and decomposition fumes.

Avoid contact with skin and eyes.

Advice on protection against

fire and explosion

: Dust from the product gives a potential risk for dust explosion.

All equipment shall be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on

surfaces.

Hygiene measures : When using do not eat, drink or smoke. Wash hands before

breaks and at the end of workday.

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

Requirements for storage areas and containers

: Safety aspects do not require any special precautions in terms

of storage.

Further information on

storage stability

Keep in a dry place.

#### 7.3 Specific end use(s)

Specific use(s) : Raw material for automotive applications.



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

For national exposure limit (OEL) values, check country specific safety data sheets.

### 8.2 Exposure controls

## **Engineering measures**

Provide adequate ventilation.

Local exhaust ventilation may be necessary.

### Personal protective equipment

Eye protection : Safety glasses

Use eye protection according to EN 166.

Hand protection

Remarks : Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time. Protective gloves complying with EN 374.

Skin and body protection : Protective clothing

Respiratory protection : In case of insufficient ventilation: Respirator with ABEK-P3

filter or self-contained breathing apparatus.

Protective measures : Appropriate personal protective equipment (PPE) shall be

worn in accordance with Regulation (EU) 2016/425.

#### **Environmental exposure controls**

General advice : Should not be released into the environment.

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of

plastics in to the environment.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state : pellets

Colour : black



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

Odour : odourless

Melting point/range : 130 - 170 °C

Boiling range : Decomposes on heating.

Flammability : The product is not flammable.

Upper explosion limit / Upper :

flammability limit

Not applicable

Lower explosion limit / Lower :

flammability limit

Not applicable

Flash point : Not applicable, (solid)

Auto-ignition temperature : > 320 °C

pH : Not applicable insoluble

Viscosity

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

Not applicable insoluble

Vapour pressure : Not applicable

(solid)

Density : 0,9 - 1,0 g/cm<sup>3</sup>

Particle size : 3 - 10 mm

Method: Image analysis (surface-based)

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : Not applicable

(solid)



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

The product is a stable thermoplastic, with no chemical reactivity.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

#### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

## 10.5 Incompatible materials

Materials to avoid : None known.

## 10.6 Hazardous decomposition products

Under fire conditions:

Carbon monoxide

During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### **Acute toxicity**

#### **Components:**

## bis(2,2,6,6-tetramethyl-4-piperidinyl)decanedioate:

Acute oral toxicity : LD50 (Rat): 3.700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,5 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rat): > 3.170 mg/kg

#### 11.2 Information on other hazards

## **Endocrine disrupting properties**

## **Product:**



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

**Further information** 

**Product:** 

Remarks : The product is not classified as hazardous to human health.

Information given is based on data of the components.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

### **Components:**

bis(2,2,6,6-tetramethyl-4-piperidinyl)decanedioate:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,57 mg/l

aquatic invertebrates Exposure time: 48 h

Test Type: Short term

M-Factor (Short-term (acute) : 1

aquatic hazard)

\_\_\_\_\_\_

Toxicity to daphnia and other : EC50: 0,96 mg/l aquatic invertebrates : Exposure time: 21 d

(Chronic toxicity) Species: Daphnia magna (Water flea)

## 12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

#### 12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: Does not accumulate in organisms.

## 12.4 Mobility in soil

**Product:** 

Mobility : Remarks: Not expected to adsorb on soil.



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

#### 12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

## 12.6 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

**Product:** 

Additional ecological

information

: Should not be released into the environment.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Dispose of contents/ container to an approved waste disposal

plant.

Reuse or recycle if not contaminated.

Check with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

Not regulated as a dangerous good



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

## 14.2 UN proper shipping name

Not regulated as a dangerous good

# 14.3 Transport hazard class(es)

Not regulated as a dangerous good

## 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN,

IMDG-Code, ICAO/IATA-DGR

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

### 15.2 Chemical safety assessment

no

### **SECTION 16: Other information**

## **Full text of H-Statements**

H318 : Causes serious eye damage.

H351 : Suspected of causing cancer if inhaled.

H361f : Suspected of damaging fertility.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard



according to Regulation (EC) No. 1907/2006

# Daplen EH228AE-9555

Version 1.2 Revision Date: 18.10.2023 Former date: 06.03.2023

Aquatic Chronic : Long-term (chronic) aquatic hazard

Carc. : Carcinogenicity
Eye Dam. : Serious eye damage
Repr. : Reproductive toxicity

**Further information** 

Other information : Issued according to Regulation (EC) No 1907/2006, Annex II,

and its amendments.

Changes since the last version are highlighted in the margin.

This version replaces all previous versions.

Issuer : Borealis, Group Product Stewardship

Sources of key data used to

compile the Safety Data

Sheet

The classification information of components is based on raw

material supplier data.

#### **Disclaimer**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

