

SAFETY DATA SHEET
according to Regulation (EC) No.
1907/2006 (as amended)

CESA-FLAM-GREEN PP62050237-ZT

Page 1(16)

Substance key: 000000834701

Revision Date: 18.01.2024

Version : 1 - 2 / FI

Date of printing : 19.01.2024

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

1.1. Product identifier

Trade name

CESA-FLAM-GREEN PP62050237-ZT

Material number: PP62050237

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

Relevant identified uses of the substance or mixture

Industry sector : Plastic processing industry.

Type of use : Additive for plastic material processing

1.3. Details of the supplier of the safety data sheet

Identification of the company

Avient Finland OY

Äyritie 8 D

01510 Vantaa

Telephone no. : +358 10 680 8500

Information about the substance/mixture

Product Stewardship, +39 02 9918 4659

e-mail: SDS.MB.Europe@avient.com

1.4. Emergency telephone number

+44 1235 239670 (24 h)

Poison Information Centre

+358 9 471 977 (24/7)

+358 9 4711 (24/7)

(24/7)

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)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required, Not a hazardous substance or mixture., The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

Spilled granules give rise to a slipping hazard. Clean up immediately.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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Chemical nature : Colourant and additive preparation
Class of additive: Flame retardant
Carrier: PP

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Poly (1,4-Diisopropylbenzene)	25822-43-9 449-400-0 01-0000018981-62-0000	Aquatic Chronic 4; H413	0,5 - 1
Benzimidazole derivative	77804-81-0 278-770-4	Flam. Sol. 2; H228 specific concentration limit Flam. Sol. 2; H228 > 40 %	0,5 - 1
Aluminium Hypophosphite	7784-22-7	Flam. Sol. 1; H228	5 - 7

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : No special measures necessary.

In case of skin contact : Cool skin rapidly with cold water after contact with molten material.
Do not peel solidified product off the skin.
Get medical attention.

In case of eye contact : Obtain medical attention.
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

If swallowed : Do NOT induce vomiting.
Call in a physician immediately and show him the Safety Data Sheet.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No significant symptom known, only those caused by the physical form of the material.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet
Foam
Carbon dioxide (CO₂)
Dry powder

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
The product is not flammable.
Phosphorus oxides (eg Phosphorus pentoxide)
Toxic gases/vapours
Phosphorus trihydride (phosphine)
Aldehydes
Hydrocarbons
Ketones
Volatile fatty acids
Water
Harmful vapours.
Sulphur oxides
Metal oxides
Formaldehyde
Nitrogen oxides (NO_x)
Risk of formation of toxic pyrolysis products

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : See: Exposure controls and personal protection.
Sweep up to prevent slipping hazard.

6.2 Environmental precautions

Environmental precautions : Do not allow to enter drains or waterways

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Clean up promptly by sweeping or vacuum.
Pick up mechanically.

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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Ensure good general ventilation in the workplace; local exhaust ventilation may be necessary, especially when emptying containers.
- Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.
- Hygiene measures : The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a cool, well-ventilated place. Protect from moisture. Keep away from direct sunlight.
- Advice on common storage : not required

7.3 Specific end use(s)

- Specific use(s) : No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

no data available

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Poly (1,4-Diisopropylbenzene) CAS-No.: 25822-43-9	Workers	Inhalation	Long-term systemic effects	10 mg/m ³
	Workers	Skin contact	Long-term systemic effects	100 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Poly (1,4-Diisopropylbenzene) CAS-No.: 25822-43-9	Fresh water	0,001 mg/l
	Marine water	0,001 mg/l
	Intermittent use/release	0,001 mg/l
	Fresh water sediment	310 mg/kg

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	Marine sediment	310 mg/kg
	Sewage treatment plant	30 mg/l
	Soil	61,8 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection	:	Safety glasses
Hand protection	:	
Remarks	:	Leather gloves Nitrile rubber gloves. Minimum thickness (glove): valid statement not possible. Minimum breakthrough time (glove): valid statement not possible. These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.
Respiratory protection	:	In case of insufficient exhaust ventilation or prolonged exposure use respiratory protection equipment according to Regulation (EU) 2016/425.
Protective measures	:	Observe precautions disposal of Regulation (EU) 2016/425 and following amendments regarding individual protection equipment for handling materials in the chemistry industry.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Granules
Colour	:	green
Odour	:	characteristic
Odour Threshold	:	Not applicable
Melting point	:	> 140 °C
Boiling point	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Flash point	:	Not applicable
Decomposition temperature	:	To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed according to good manufacturing practices. See section 10.4. "Conditions to avoid"
pH	:	substance/mixture is non-soluble (in water)
Viscosity	:	

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Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: This property is not applicable for mixtures.
Vapour pressure	: Not applicable
Relative density	: not available
Density	: not tested.
Relative vapour density	: Not applicable
Particle characteristics	
Assessment	: Assessment: Not applicable
Particle size	: Product specific

9.2 Other information

Explosives	: no data available no data available
Oxidizing properties	: not available
Self-ignition	: Not applicable
Evaporation rate	: Not applicable
Surface tension	: Not relevant

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Temperatures exceeding thermal stability of the masterbatch.
Electrostatic charges.
Avoid dust formation.
Keep away from flames and sparks.

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Take precautionary measures against static discharges.
Temperatures greater than recommended storage
temperature.
Keep away from heat.
Keep away from heat and sources of ignition.
Heat, flames and sparks.
Keep away from sources of ignition - No smoking.

10.5 Incompatible materials

Materials to avoid : not known

10.6 Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Remarks: The product has not been tested. The information
is derived from the properties of the individual components.

Components:

Poly (1,4-Diisopropylbenzene):

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral
toxicity

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal
toxicity

Benzimidazole derivative:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1,274 mg/l

Aluminium Hypophosphite:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 3,3 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403

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Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Result : No skin irritation

Components:

Poly (1,4-Diisopropylbenzene):

Species : Rabbit
Assessment : non-irritant
Method : OECD Test Guideline 404
Result : No skin irritation

Benzimidazole derivative:

Assessment : non-irritant
Result : No skin irritation

Aluminium Hypophosphite:

Species : Rabbit
Exposure time : 4 h
Assessment : No skin irritation

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Result : No eye irritation

Components:

Poly (1,4-Diisopropylbenzene):

Species : Rabbit
Assessment : non-irritant
Method : OECD Test Guideline 405
Result : No eye irritation

Benzimidazole derivative:

Assessment : non-irritant
Result : No eye irritation

Aluminium Hypophosphite:

Species : Rabbit
Assessment : No skin irritation

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Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Result : non-sensitizing

Components:

Poly (1,4-Diisopropylbenzene):

Exposure routes : Dermal
Species : Guinea pig
Assessment : non-sensitizing
Method : OECD Test Guideline 406
Result : non-sensitizing

Benzimidazole derivative:

Test Type : Mouse local lymphnode assay
Species : Mouse
Assessment : non-sensitizing
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Aluminium Hypophosphite:

Species : Guinea pig
Assessment : non-sensitizing
Method : OECD Test Guideline 406

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Poly (1,4-Diisopropylbenzene):

Genotoxicity in vitro : Method: OECD Test Guideline 476
Result: negative

Method: OECD Test Guideline 471
Result: negative

Benzimidazole derivative:

Genotoxicity in vitro : Test system: Salmonella typhimurium
Concentration: 3 - 5000
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

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Test system: Escherichia coli
Concentration: 3 - 5000
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Aluminium Hypophosphite:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

Components:

Poly (1,4-Diisopropylbenzene):

Effects on fertility : Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight
General Toxicity F1: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 421

Effects on foetal development : Species: Rat
General Toxicity Maternal: NOAEL: 1.000
Developmental Toxicity: NOAEL: 1.000
Method: OECD Test Guideline 414

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

Poly (1,4-Diisopropylbenzene):

Species : Rat, male and female
NOAEL : 1.000 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408

Aluminium Hypophosphite:

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Species : Rat, male and female
NOAEL : 35,2 mg/kg
Application Route : Oral
Exposure time : 28 d
Method : OECD Test Guideline 407

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Further information

Product:

Remarks : Determined on raw material components in accordance with
Regulation (EC) No 1272/2008.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: no data available

Components:

Poly (1,4-Diisopropylbenzene):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100
plants
mg/l
Exposure time: 72 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.3.

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100
mg/l
Exposure time: 72 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to microorganisms : EC50 (Bacteria): > 300 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

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Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Benzimidazole derivative:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic : NOEC (Desmodesmus subspicatus (green algae)): 1 mg/l
plants
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other : 1 mg/l
aquatic invertebrates
(Chronic toxicity)
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Aluminium Hypophosphite:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: Reproduction Test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (algae): > 100 mg/l
plants
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

12.2 Persistence and degradability

Product:

Physico-chemical : Remarks: The product can be separated out mechanically.
removability

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Components:

Poly (1,4-Diisopropylbenzene):

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301B

Benzimidazole derivative:

Biodegradability : Remarks: Not readily biodegradable.

Aluminium Hypophosphite:

Biodegradability : Biodegradation: 3,1 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

Poly (1,4-Diisopropylbenzene):

Partition coefficient: n- : log Pow: 9,2 (20 °C)
octanol/water

Benzimidazole derivative:

Partition coefficient: n- : log Pow: 0,04 (25 °C)
octanol/water pH: 7

Aluminium Hypophosphite:

Partition coefficient: n- : log Pow: < -3,05
octanol/water

12.4 Mobility in soil

Product:

Distribution among : Remarks: not tested.
environmental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: No information is available as no chemical safety
report (CSR) is required.

12.6 Endocrine disrupting properties

no data available

12.7 Other adverse effects

Product:

Additional ecological : Do not allow to enter ground water, waterways or waste water.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | | |
|------------------------|---|--|
| Product | : | Must be taken to special waste disposal site in accordance to EC regulations (91/156/EEC; 91/689/EEC; 94/62/EC) and following amendments considering the possible dangerous ingredients listed in chapter "Composition/information on ingredients", "Stability and reactivity" or "Other information". |
| Contaminated packaging | : | Contaminated packaging material should be treated equivalent to residual chemicals. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation. |

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Other regulations:

All the ingredients of the preparation comply with the applicable requirements of the current REACH Regulation.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

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SECTION 16: Other information

Full text of H-Statements

H228 : Flammable solid.
H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard
Flam. Sol. : Flammable solids

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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its subsidiaries and affiliates cannot guarantee that these are the only hazards that exist. This information is only valid for the current intended use, and is not valid for such Avient product used in conjunction with any other materials or in any process.

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