

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product Name **Gastrivix™ Avi**

Contains Carvacrol
Pure substance/mixture Mixture

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

Recommended use Premixture
Uses advised against Not identified.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Perstorp Waspik B.V.
Industrieweg 8
NL-5165 NH Waspik
The Netherlands
Tel. +31 (0)416 31 77 00
www.perstorp.com
E-mail address productinfo@perstorp.com

1.4. Emergency telephone number

Emergency Telephone (+)1 760 476 3961 (contract no: 334101)

Emergency Telephone (+)1 760 476 3961 (contract no: 334101)
Americas (+)1 760 476 3962 (contract no: 334101)
Middle East and Africa (+)1 760 476 3959 (contract no: 334101)
Asia Pacific (+)1 760 476 3960 (contract no: 334101)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 2 - (H319)
Skin sensitisation Category 1 - (H317)

2.2. Label elements**Symbols/Pictograms**

Signal word
Warning

Hazard statements

H319 - Causes serious eye irritation
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction

Precautionary Statements

P280 - Wear protective gloves and eye/face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
 P363 - Wash contaminated clothing before reuse

Contains Carvacrol

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB
 This product does not contain any known or suspected endocrine disruptors

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	EC No	REACH registration number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Silica, amorphous 'CAS #:' 112926-00-8	231-545-4	01-2119379499-16	25-35	[A]	No data available	No data available	No data available
Magnesium oxide 'CAS #:' 1309-48-4	215-171-9	No data available	1-5	[A]	No data available	No data available	No data available
Carvacrol 'CAS #:' 499-75-2	207-889-6	01-1210763813-49	1-3	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)	No data available	No data available	No data available

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

- [A]- Not classified

[A] - Not classified, Data are conclusive but insufficient for classification

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Carvacrol 'CAS #:' 499-75-2	500	-	-	-	Not applicable

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Emergency eyewash facilities must be located in the vicinity of where the product is handled. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Skin contact	May cause an allergic skin reaction. Wash off immediately with soap and plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a doctor.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Use lukewarm water if possible. Do not rub affected area. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	Eye contact: Causes severe irritation with flood of tears and pain and strong redness and swelling of the eye. Risk of permanent eye damage. May cause skin irritation and/or dermatitis. May cause allergic skin reaction. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
-----------------	---

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

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.
------------------------	--

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
-------------------------------------	---

Unsuitable extinguishing media	Water with full jet as this can form a dust cloud.
---------------------------------------	--

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours. Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous combustion products	Carbon monoxide (CO), Carbon dioxide (CO ₂).
--------------------------------------	--

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus and protective suit.
---	--

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe
-----------------------------	---

areas. Keep people away from and upwind of spill/leak.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Prevent further leakage or spillage if safe to do so. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Small spill Vacuum or sweep material and place in a disposal container
 Large spill Cover powder spill with plastic sheet or tarp to minimise spreading. Vacuum or sweep material and place in a disposal container.

Methods for cleaning up Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See Section 7,8,13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid generation of dust. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)
 See Section 1.2 for more information.

Risk Management Methods (RMM) This information is supplied in the present Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Keep personal exposure levels below Derived No Effect Level (DNEL) and national exposure limit values (if existing).

Legal basis:

Official Gazette No. 1/2021 (4.1.2021.), Ordinance amending the Regulation on the Protection of Workers from Exposure to Hazardous Chemicals at Work, the Limit Values of Exposure and the Biological Limit Values (Official Gazette No. 91 of October 12, 2018)

Chemical name	Croatia
Magnesium oxide 1309-48-4	TWA: 4 mg/m ³ TWA: 10 mg/m ³

Derived No Effect Level (DNEL) - worker

Carvacrol (499-75-2)			
Type	Exposure route	DNEL	Remarks
Chronic effects, systemic	Inhalation	0.439	mg/m ³ Effects on fertility
Chronic effects, systemic	Dermal	0.124	mg/kg bw/d Effects on fertility

Derived No Effect Level (DNEL) - Consumer

Carvacrol (499-75-2)			
Type	Exposure route	DNEL	Remarks
Chronic effects, systemic	Inhalation	0.0773	mg/m ³ Effects on fertility
Chronic effects, systemic	Dermal	0.0444	mg/kg bw/d Effects on fertility
Chronic effects, systemic	Oral	0.0444	mg/kg bw/d Effects on fertility

Predicted No Effect Concentration (PNEC)

Carvacrol (499-75-2)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	Remarks
Freshwater	0.00405 - 0.005	mg/l
Freshwater sediment	0.609 - 0.752	mg/kg dry weight
Marine water	0.000405 - 0.0005	mg/l
Marine sediment	0.0609 - 0.0752	mg/kg dry weight
Impact on Sewage Treatment	0.757	mg/l
Soil	0.119 - 0.147	mg/kg dry weight
Air	No hazard identified	
Intermittent Freshwater	0.0405 - 0.050	mg/l
Intermittent Marine water	0.005	mg/l

8.2. Exposure controls

Appropriate engineering controls Eyewash stations. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Eye protection must conform to standard EN 166. Wear safety glasses with side shields (or goggles).
Hand protection	Butyl rubber. Chloroprene rubber, CR. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes).
Respiratory protection	Where there is potential for airborne exposure above the exposure limit an approved air purifying respirator equipped with Type A, organic gases and vapours filter (as specified by the manufacturer) in combination with Type P2 - Medium efficiency particle filters may be used.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Powder
Colour	off-white
Odour	characteristic
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point		Not determined
Initial boiling point and boiling range		Not determined
Flammability		Not applicable
Flammability Limit in Air		
Upper flammability or explosive limits		No information available
Lower flammability or explosive limits		No information available
Flash point		Not applicable
Autoignition temperature		No information available
Decomposition temperature		Not determined
pH	6 - 7	@20°C; 5%
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Explosive properties	Not explosive.	No information available
Oxidising properties	Not oxidising.	No information available
Water solubility		No information available
Solubility(ies)		No information available
Partition coefficient		See Section 12 for additional ecological information
Vapour pressure		No information available
Relative vapour density		No information available
Relative density		No information available
Liquid Density		No information available
Bulk density		No information available
Particle characteristics		No information available

9.2. Other information

No information available

9.2.1. Information with regards to physical hazard classes

Explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidising gases	Not applicable
Gases under pressure	Not applicable
Flammable solids	
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Oxidising liquids	Not applicable
Oxidising solids	Not applicable
Oxidising properties	
Organic peroxides	Not applicable
Desensitised explosives	Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.

10.2. Chemical stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reacts with Strong bases, Oxidising substances.

10.4. Conditions to avoid

Conditions to avoid No information available.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapours.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure**

Dermal. Inhalation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Eye contact: Causes severe irritation with flood of tears and pain and strong redness and swelling of the eye. Risk of permanent eye damage. May cause skin irritation and/or dermatitis. May cause allergic skin reaction. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Numerical measures of toxicity

Acute toxicity Product does not present an acute toxicity hazard based on known or supplied information.

ATEmix (oral)	8,163.30 mg/kg
ATEmix (dermal)	15,866.10 mg/kg
Acute oral toxicity	0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
Acute dermal toxicity	0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
Acute inhalation toxicity - dust/mist	31.52 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation According to the data on the components: May cause sensitisation by skin contact.

Germ cell mutagenicity According to the data on the components: Not mutagenic.

Carcinogenicity According to the data on the components: Not suspected as a human carcinogen.

Reproductive toxicity According to the data on the components: Is not considered hazardous to the reproduction.

STOT - single exposure Target organ effects: None known.

STOT - repeated exposure Target organ effects: None known.

Aspiration hazard No hazard from product as supplied.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

None known.

Additional information

Caution – main ingredient not yet fully tested

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products This material and its container must be disposed of as hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not re-use container.

Waste codes / waste designations according to EWC / AVV Waste from residues/unused products: 16 03 05*.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information**ADR Road transport**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

RID Rail transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

ADN Inland waterway transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
Proper Shipping Description	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special precautions for user	None

IMDG Sea transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

IATA Air transport

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

Not applicable.

European Union

REGULATION (EC) No 1831/2003 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on additives for use in animal nutrition

National regulations**Germany**

Water hazard class (WGK)

Water endangering class = 1 (self classification)

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H411 - Toxic to aquatic life with long lasting effects

Legend

REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
 CLP: The Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)
 SVHC: Substances of Very High Concern for Authorisation:
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals
 ED: Endocrine disrupting potential

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Issue Date	28-Nov-2022
Revision date	27-Nov-2022
Reason for revision	SDS sections updated: 8

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Regulation (EC) No. 1907/2006, COMMISSION REGULATION (EU) 2020/878 of 18 June 2020.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

