

**SAFETY DATA SHEET (EC 1907/2006)****VESTENAMER® 8012**

Version:	<b>5.9 / GB</b>	Material no.	
Revision date:	<b>07.06.2018</b>	Specification	<b>121160</b>
Issue date:	10.08.2001	VA-Nr	
replaces version:	5.8		
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name VESTENAMER® 8012  
REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified Polymeric processing additive in the caoutchouc and polymer industries.

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

Company Evonik Resource Efficiency GmbH  
RE-ES-PS Marl  
D-45764 Marl  
Telephone +49 (0)2365 49-9282  
Telefax +49 (0)2365 49-7275  
Email address MSDSInfo-COHP@evonik.com

**1.4. Emergency telephone number**

Emergency information +49 (0)2365 49-2232 (Interpreting service available)  
Emergency information +49 (0)2365 49-4423 (Telefax)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

REGULATION (EC) No 1272/2008

Remarks Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2. Label elements****Labelling as per (EU) 1272/2008**

Statutory basis REGULATION (EC) No 1272/2008  
Remarks Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

Dust can occur through abrasion if the granulate is subjected to mechanical loading.  
Risk of skin burns caused by hot melt.  
A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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

**Chemical nature**  
Modified rubber

**SECTION 4: First aid measures****4.1. Description of first aid measures**

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Pay attention to self-protection.  
Move out of dangerous area.  
Keep warm, position comfortably, and cover well.  
Do not leave affected persons unattended.

### Inhalation

In case of symptoms of irritation caused by vapours in thermal processing: Provide fresh air, seek medical advice if necessary.

### Skin contact

Wash hands before breaks and at the end of work day.  
Cool melted product on skin with plenty of water. Do not remove solidified product.  
Cover with sterile dressing and seek medical advice.  
In case of burns by molten product medical treatment is necessary.

### Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.  
Consult an ophthalmologist immediately if the symptoms persist.

### Ingestion

Rinse mouth.  
Do not induce vomiting and seek medical advice immediately.

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

### Symptoms

No experiences of acute or chronic damages in humans have been made as yet.

### Hazards

Risk of skin burns caused by hot melt.

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

After accidental absorption in the body, the pathology and clinical findings are dependent on the kinetics of the noxious substance (quantity of absorbed substance, the absorption time, and the effectiveness of early elimination measures (first aid)/ excretion - metabolism).

Continue with first aid measures.

Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: water spray  
foam  
CO<sub>2</sub>  
dry powder

Unsuitable extinguishing media: high volume water jet

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

In the case of fire, the following hazardous smoke fumes may be produced: carbon monoxide, carbon dioxide.

Under certain fire conditions, traces of other toxic products may occur.

### 5.3. Advice for firefighters

Have ready/wear respiratory protection equipment.

## SECTION 6: Accidental release measures

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

In case product dust is released:  
Dust mask

### 6.2. Environmental precautions

Should not be released into the environment.

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- 6.3. Methods and material for containment and cleaning up**  
 Sweep up or vacuum up spillage and collect in suitable container for disposal.  
 Avoid dust formation.
- 6.4. Reference to other sections**  
 Wear personal protective equipment; see section 8.

**SECTION 7: Handling and storage**

- 7.1. Precautions for safe handling**  
 In case of thermal processing, provide for extraction of the vapours or adequate ventilation.  
 Spilled substance causes danger of slipping.
- 7.2. Conditions for safe storage, including any incompatibilities**  
**Advice on protection against fire and explosion**  
 General rules of fire prevention should be observed.  
 If dusts are formed: Take precautionary measures against static charges, keep away from sources of ignition.  
**Storage**  
 Keep containers tightly closed in a dry, cool and well-ventilated place.  
 Avoid exposure to light /sunlight  
**Advice on common storage**  
 Observe prohibition against storing together!  
**German storage class**  
 11 - Combustible Solids  
**Storage stability**  
 Stable under recommended storage conditions.
- 7.3. Specific end use(s)**  
 We are unaware of any specific end uses which go beyond the data reported in Section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

• exposure limit for dust		
CAS-No.		
Control parameters	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Inhalable dust.	
Control parameters	4 mg/m <sup>3</sup>	Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable dust.	

**8.2. Exposure controls****Engineering measures**

Provide appropriate exhaust ventilation at machinery.

**Personal protective equipment****Respiratory protection**

Do not inhale vapours from hot product.

Should vapours inadvertently manage to permeate into the surrounding air during thermal processing, then gas masks fitted with filters designed to combat organic vapours (e.g. A 2) or breathing apparatus with an independent air supply are to be worn.

**Hand protection**

The wearing of protective gloves is not required if the granulate in question is handled at room temperature.

Use barrier cream regularly.

Protective heat-insulating gloves are to be used during thermal processing.

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**Eye protection**

Safety glasses with side-shields

**Hygiene measures**

Avoid contact with skin and eyes.

Do not wear contaminated clothing.

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

Use barrier cream regularly.

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

## Appearance

Form	granular
Colour	white
physical state	solid

Odour	faint
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Odour threshold:	not determined
	Not required by safety or application considerations.

pH	not applicable
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Melting point/range	< 65 °C
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Boiling point/range	not applicable
	decomposition

Flash point	not applicable
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Evaporation rate	not applicable
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Flammability (solid, gas)	The product is not flammable.
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Lower explosion limit	see Explosiveness
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Upper explosion limit	see Explosiveness
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Vapour pressure	not applicable
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Vapour density	not applicable
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Relative density	0.91 (approx. 23 °C)
Method:	ISO 1183

Water solubility	insoluble
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Partition coefficient n-octanol/water	no data available
	Not required by safety or application considerations.

Autoinflammability	The substance or mixture is not classified as pyrophoric.
	The substance or mixture is not classified as self heating.

Thermal decomposition	250 - 300 °C
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Viscosity, dynamic	no data available
	Not required by safety or application considerations.

Viscosity, kinematic	no data available
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Not required by safety or application considerations.

Explosiveness Not explosive  
Dusts might form explosive mixtures with air.

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

**9.2. Other information**

formation of flammable gases The substance or mixture does not emit flammable gases in contact with water.

Ignition temperature > 400 °C

peroxides The substance or mixture is not classified as organic peroxide.

Metal corrosion Not corrosive to metals

Other information The range of values given complies with the variation range of the product group.  
The specific physical chemical data can be read in the product information.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Under normal conditions: stable.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions Reacts with:  
Acids  
strong oxidants

**10.4. Conditions to avoid**

Keep away from heat sources.  
Protect from the action of light.

**10.5. Incompatible materials**

Acids, Oxidizing agents

**10.6. Hazardous decomposition products**

Decomposition products on thermal decomposition  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute oral toxicity LD50 Rat: > 12500 mg/kg  
Based on available data, the classification criteria are not met.

Acute inhalation toxicity No data available

Acute dermal toxicity No data available

Skin irritation not irritating  
Method: OECD Test Guideline 404  
Based on available data, the classification criteria are not met.

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Eye irritation	not irritating Method: OECD Test Guideline 405 Based on available data, the classification criteria are not met.
Sensitization	No data available
Repeated dose toxicity	Oral Rat / 90-day NOEL: $\geq 4000$ mg/kg Based on available data, the classification criteria are not met.
Assessment of STOT single exposure	Assessment The substance or mixture is not classified as specific target organ toxicant, single exposure.
Assessment of STOT repeat exposure	Assessment The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Gentoxicity in vivo	Micronucleus test Mouse Method: OECD TG 474 no evidence of mutagenic effects Based on available data, the classification criteria are not met.

**CMR assessment**

Carcinogenicity	The carcinogenic effect of the substance has not yet been determined in a long-term animal study. The substance is not genotoxic. Generally speaking, carcinogenic substances are genotoxic. Therefore, this type of carcinogenic effect can be considered improbable for this substance.
Mutagenicity	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Teratogenicity	No data available
Toxicity to reproduction	No data available

**SECTION 12: Ecological information****Ecotoxicology Assessment**

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

**12.1. Toxicity**

Toxicity to fish	see item 12.6
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**12.2. Persistence and degradability**

Further Information	see item 12.6
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**12.3. Bioaccumulative potential**

Bioaccumulation	see item 12.6
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**12.4. Mobility in soil**

Mobility	see item 12.6
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**12.5. Results of PBT and vPvB assessment**

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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**12.6. Other adverse effects**

Further Information

The properties of this product which are characteristics posing a threat to the environment have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Product**

With respect to local regulations, e.g. dispose of to waste incineration plant

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

**SECTION 14: Transport information**

**Not dangerous according to transport regulations.**

- 14.1. UN number: --  
14.2. UN proper shipping name: --  
14.3. Transport hazard class(es): --  
14.4. Packing group: --  
14.5. Environmental hazards: --  
14.6. Special precautions for user: No

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

Major Accident Hazard  
Legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
listing: not applicable

**registration**

USA (TSCA) listed/registered  
Canada (DSL) listed/registered  
Australia (AICS) listed/registered  
Japan (MITI) listed/registered  
Korea (KECI) listed/registered  
Philippines (PICCS) listed/registered  
China listed/registered  
New Zealand listed/registered  
Taiwan listed/registered

Information on additional inventories on request.

**15.2. Chemical safety assessment**

Chemical safety assessment Chemical safety assessment: not determined

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**SECTION 16: Other information****Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern



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<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization