

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

Material no.	Version	4.3 / REG_EU
Specification	Revision date	19.02.2015
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**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 Industries AG
High Performance Polymers
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 (international)
Emergency information +49 (0)2365 49-4423 (fax)

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.

Classification as per Directive 67/548/EC or Directive 1999/45/EC

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

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.

3. Composition/information on ingredients

Chemical nature
Modified rubber

4. First aid measures

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4.1. Description of first aid measures

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 workday.
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.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: water spray
foam
CO₂
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.

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

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Should not be released into the environment.

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.

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 light effect / sun rays.

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.

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

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.

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**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.
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pH	Not applicable
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Melting point/range	< 65 °C
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Boiling point/range	Not applicable decomposition
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Flash point	Not applicable
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Evaporation rate	Not applicable
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Flammability (solid, gas)	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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Density	0.91 g/cm ³ (ca. 23 °C) Method: ISO 1183
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Water solubility	insoluble
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Partition coefficient n-octanol/water	No data available Not required by safety or application considerations.
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Autoinflammability	Not capable of spontaneous combustion or heating.
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Thermal decomposition	250 - 300 °C
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Viscosity, dynamic	No data available Not required by safety or application considerations.
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Explosiveness	not explosive
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Dusts might form explosive mixtures with air.

Oxidizing properties	not oxidizing
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9.2. Other information

formation of flammable gases	The substance or mixture does not emit flammable gases in contact with water.
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Ignition temperature	> 400 °C
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peroxides	The substance or mixture is not classified as organic peroxide.
Metal corrosion	Does not corrode metal.
Vapour density	Not applicable
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.

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
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10.4. Conditions to avoidKeep away from heat sources.
Protect from the action of light.**10.5. Incompatible materials**

Acids, Oxidizing agents

10.6. Hazardous decomposition productsDecomposition products on thermal decomposition
Carbon monoxide
Carbon dioxide (CO₂)**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.
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: >= 4000 mg/kg Based on available data, the classification criteria are not met.

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Assessment of STOT single exposure	Assessment	The substance or mixture is not classified as specific target organ toxicant, single exposure.
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Assessment of STOT repeat exposure	Assessment	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
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Gentotoxicity 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

12. Ecological information**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.

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".
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Ecotoxicology Assessment

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

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**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.

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 |

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****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 (IECSC)	listed/registered
New Zealand	listed/registered
Taiwan (ECS)	listed/registered

Information on additional inventories on request.

15.2. Chemical safety assessment

Chemical safety assessment Chemical safety assessment: not determined

16. Other information**Further information**

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

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**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization