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

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.

SECTION 5: Firefighting 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.

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.

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/m3	Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Inhalable dust.	
Control parameters	4 mg/m3	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.

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
Odour threshold:	not determined Not required by safety or application considerations.
pH	not applicable
Melting point/range	< 65 °C
Boiling point/range	not applicable decomposition
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	see Explosiveness
Upper explosion limit	see Explosiveness
Vapour pressure	not applicable
Vapour density	not applicable
Relative density	0.91 (approx. 23 °C) Method: ISO 1183
Water solubility	insoluble
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
Viscosity, dynamic	no data available Not required by safety or application considerations.
Viscosity, kinematic	no data available

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_2)

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.

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.
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 substance 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

12.2. Persistence and degradability

Further Information: see item 12.6

12.3. Bioaccumulative potential

Bioaccumulation: see item 12.6

12.4. Mobility in soil

Mobility: see item 12.6

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".

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

SECTION 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