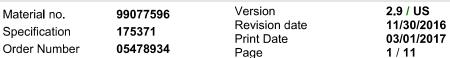
#### VESTAMID® Care ML21





#### 1. Identification

#### 1.1. Product identifier

Trade name VESTAMID® Care ML21

#### 1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified Moulding mass for thermoplastic processing into technical semi-finished

products and structural elements

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

Company Evonik Corporation USA

299 Jefferson Road

Parsippany, NJ 07054-0677

USA

Telephone 973-929-8000

Telefax 973-929-8040

Email address Product-Regulatory-Services@Evonik.com

## 1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

**CHEMTREC - US &** 

CANADA:

800-424-9300

**CHEMTREC MEXICO**: 01-800-681-9531

CHEMTREC +1 703-527-3887 (collect calls accepted)

**INTERNATIONAL:** 

Product Regulatory

973-929-8060

Services

## 2. Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

# 2.2. Label elements

Statutory basis Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

## 2.3. Other hazards

Fumes from hot processing may be irritating to eyes and respiratory tract.

Risk of skin burns caused by hot melt.

Inhalation Fumes from hot processing may cause irritation.

Skin In case of burns by molten product medical treatment is necessary.

Eyes Fumes from hot processing may cause eye irritation.

Ingestion No hazard expected in normal use.

#### VESTAMID® Care ML21





Fine dust, which may be formed through abrasion during transport or handling, can form explosive mixtures with air

# 3. Composition/information on ingredients

#### **Chemical nature**

moulding compound on the base: polyamide

#### Other information

This sheet describes a group of products. It only contains safety-relevant data. For specific data, see Product Information sheet.

#### 4. First aid measures

## 4.1. Description of first aid measures

#### General advice

First aider needs to protect himself.

Remove from exposure, lie down.

Keep at rest.

Do not leave the victim unattended.

## Inhalation

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

If breathed in, move person into fresh air.

#### Skin contact

Cool melted product on skin with plenty of water. Do not remove solidified product.

Consult a physician.

# Eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

If eye irritation persists, consult a specialist.

## Ingestion

Seek medical advice.

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

## **Symptoms**

Product dust may be irritating to eyes, skin and respiratory system.

#### **Hazards**

Risk of skin burns caused by hot melt.

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

Continue with first aid measures.

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

## 5. Fire-fighting measures

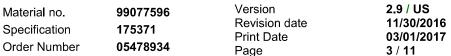
## 5.1. Extinguishing media

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

Unsuitable extinguishing media: High volume water jet

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

#### VESTAMID® Care ML21





May be released in case of fire: carbon monoxide, carbon dioxide, nitric oxides, organic products of decomposition.

Under certain fire conditions, traces of other toxic products may occur. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

## 5.3. Advice for firefighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### 6. Accidental release measures

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

Avoid breathing dust. Ventilate the area.

## 6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

#### 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. Dusts might form explosive mixtures with air. Remove all sources of ignition. Use only non-sparking tools.

## **Additional advice**

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). If dust is present, control smoking, open flames, sparks, static electricity and friction heat.

## 7. Handling and storage

## 7.1. Precautions for safe handling

Avoid dust formation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Protect from moisture. Avoid exceeding the given occupational exposure limits (see section 8). In thermal processing: Risk of skin burns Minimize dust generation and accumulation. Keep away from all ignition sources including heat, sparks and flame.

## 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

During processing, dust may form explosive mixture in air.

Minimize dust generation and accumulation.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

#### Storage

Keep container tightly closed. Store in a cool and dry place.

## Storage stability

Stable under recommended storage conditions.

## VESTAMID® Care ML21

 Material no.
 99077596
 Version
 2.9 / US

 Specification
 175371
 Revision date Print Date
 03/01/2017

 Order Number
 05478934
 Page
 4 / 11



## 8. Exposure controls/personal protection

## 8.1. Control parameters

exposure limit for dust		
CAS-No. Control parameters type of exposure	3 mg/m3 Respirable particles.	Time Weighted Average (TWA):(ACGIH)
Control parameters type of exposure	10 mg/m3 Inhalable particles.	Time Weighted Average (TWA):(ACGIH)
Control parameters	10 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL)(US CA OEL)
type of exposure  Control parameters	Total dust. 5 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL)(US CA OEL)
type of exposure	Respirable fraction.	
Control parameters type of exposure	15 mg/m3 Total dust.	Time Weighted Average (TWA):(Z3)
Control parameters type of exposure	5 mg/m3 Respirable fraction.	Time Weighted Average (TWA):(Z3)
Control parameters type of exposure	50millions of particles per cubic foot of air Total dust.	Time Weighted Average (TWA):(Z3)
Control parameters type of exposure	15millions of particles per cubic foot of air Respirable fraction.	Time Weighted Average (TWA):(Z3)

## 8.2. Exposure controls

## **Engineering measures**

In case of thermal processing, provide for extraction of the vapours or adequate ventilation.

Avoid dust formation.

Dust must be extracted directly at the point of origin.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powered industrial trucks.

## Personal protective equipment

# **Respiratory protection**

Do not breathe dust.

In the case of dust or aerosol formation use respirator with an approved filter.

Note time limit for wearing respiratory protective equipment.

In the case of vapour formation use a respirator with an approved filter.

Respirator with filter for organic vapour

Note time limit for wearing respiratory protective equipment.

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

## VESTAMID® Care ML21

 Material no.
 99077596
 Version
 2.9 / US

 Specification
 175371
 Revision date Print Date
 03/01/2017

 Order Number
 05478934
 Page
 5 / 11



## **Hand protection**

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

Any areas of skin covered with dust must be washed immediately with soap and water as the powder draws out natural moisture from the skin.

Use barrier cream regularly.

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

## Eye protection

Safety glasses

## Skin and body protection

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

## Hygiene measures

Wash contaminated clothing before re-use.

Wash hands before breaks and at the end of workday.

Do not eat, drink or smoke during use.

## 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

physical state solid

Colour natural colour Form granular odour odourless

Odour Threshold not determined

Not required by safety or application considerations.

pH not applicable

Melting point/range 165 - 190 °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

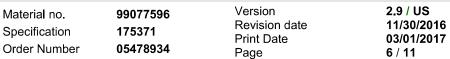
Vapour pressure not applicable

Vapour density not applicable

Relative vapour density no data available

Relative density 1.0 - 1.2 (20 °C)

#### VESTAMID® Care ML21





Water solubility insoluble

Partition coefficient: n-

no data available

octanol/water

Not required by safety or application considerations.

Autoignition temperature > 350 °C

Thermal decomposition > 300 °C

Viscosity, dynamic no data available

Not required by safety or application considerations.

9,2. Other information

Explosiveness Not explosive

Dusts might form explosive mixtures with air.

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

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

formation of flammable

gases

The substance or mixture does not emit flammable gases in contact with

water.

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.

## 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 Do not bring hot smelter into contact with water (steam formation!) reactions

# 10.4. Conditions to avoid

Keep away from all ignition sources including heat, sparks and flame.

Extremes of temperature and direct sunlight.

## 10.5. Incompatible materials

None known.

## 10.6. Hazardous decomposition products

Decomposition products on thermal decomposition

carbon monoxide, carbon dioxide, Nitrogen oxides (NOx), organic products of decomposition

#### VESTAMID® Care ML21



Version Material no. 99077596 Revision date Specification 175371 03/01/2017 **Print Date** Order Number 05478934 Page 7 / 11



#### 11. **Toxicological information**

## 11.1. Information on toxicological effects

carcinogenicity assessment No component of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or

OSHA.

Further information No toxicological tests have been conducted with the product itself.

#### 12. **Ecological information**

# 12.1. Toxicity

Toxicity to fish no data available

# 12.2. Persistence and degradability

Biodegradability no data available

Further Information no data available

# 12.3. Bioaccumulative potential

Bioaccumulation no data available

# 12.4. Mobility in soil

Mobility no data available.

## 12.5. Other adverse effects

Further Information No ecotoxicological studies are available.

#### 13. **Disposal considerations**

## 13.1. Waste treatment methods

#### **Product**

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

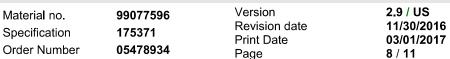
## Uncleaned packaging

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

#### 14. **Transport information**

Not dangerous according to transport regulations.

#### VESTAMID® Care ML21





14.1. UN number:

14.2. UN proper shipping name: --

14.3. Transport hazard class(es): -

14.4. Packing group: --14.5. Environmental hazards (Marine --

pollutant):

14.6. Special precautions for user: Yes

Not dangerous according to transport regulations.

# 15. Regulatory information

## **US Federal Regulations**

#### **OSHA**

If listed below, chemical specific standards apply to the product or components:

None listed

#### Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

None listed

## **CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

None listed

# SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

No SARA Hazards

## SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

None listed

## **Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

None listed

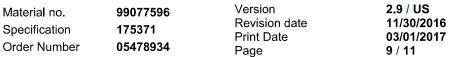
#### State Regulations

#### California Proposition 65

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### VESTAMID® Care ML21





# **International Chemical Inventory Status**

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

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

Information on additional inventories on request.

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

## **HMIS Ratings**

Health: 1
Flammability: 1
Physical Hazard: 0

# 16. Other information

## **Further information**

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust

Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling information.

Revision date 11/30/2016

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

#### VESTAMID® Care ML21

 Material no.
 99077596
 Version
 2.9 / US

 Specification
 175371
 Revision date Print Date
 03/01/2017

 Order Number
 05478934
 Page
 10 / 11



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Legend

ACC American Chemistry Council

ACGIH American Conference of Governmental Industrial Hygenists

ACS Advisory Committee on Sustainability

ADI Acceptable Daily Intake

**ASTM** American Society for Testing and Materials

ATP Adaptation to Technical Progress

BCF Bioconcentration factor
BOD Biochemical oxygen demand

**c.c.** closed cup

CAO Cargo Aircraft Only Carc Carcinogen

CAS Chemical Abstract Services

CDN Canada

CEPA Canadian Environmental Protection Act

CERCLA Comprehensive Environmental Response – Compensation and Liability Act

**CFR** Code of Federal Regulations

**CMR** carcinogenic-mutagenic-toxic for reproduction

COD Chemical oxygen demand

**DIN** German Institute for Standardization

DMEL Derived minimum effect level
DNEL Derived no effect level
DOT Department of Transportation
EC50 half maximal effective concentration
EPA Environmental Protection Agency

ErC50 Reduction of Growth Rate
ERG Emergency Response Guide Book
FDA Food and Drug Administration

GHS Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

GLP Good Laboratory Practice
GMO Genetic Modified Organism
HCS Hazard Communication Standard

HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer
IATA International Air Transport Association

Intermediate Bulk Container

ICAO-TI International Civil Aviation Organization- Technical Instructions

ICCA International Council of Chemical Association

ID Identification number

IMDG International Maritime Dangerous Goods

IUPAC International Union of Pure and Applied Chemistry
ISO International Organization For Standardization

**LC50** 50 % Lethal Concentration

**LD50** 50 % Lethal Dose **L(E)C50** LC50 or EC50

LOAEL Lowest observed adverse effect level

LOEL Lowest observed effect level

MARPOL International Convention for the Prevention of Pollution from Ships

NFPA National Fire Protection Association

## **VESTAMID® Care ML21**



 Material no.
 99077596
 Version
 2.9 / US

 Specification
 175371
 Revision date Print Date
 03/01/2017

 Order Number
 05478934
 Page
 11 / 11

NOAEL No observed adverse effect level no observed effect concentration

NOEL no observed effect level

o. c. open cup

**OECD** Organisation for Economic Cooperation and Development

OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration

PBT Persistent, bioaccumulative, toxic
PEC Predicted effect concentration
PNEC Predicted no effect concentration

RQ Reportable Quantity SDS Safety Data Sheet

**STOT** Specific Target Organ Toxicity

UN United Nations

vPvB very persistent, very bioaccumulative

voc volatile organic compounds

WHMIS Workplace Hazardous Materials Information System

WHO World Health Organization